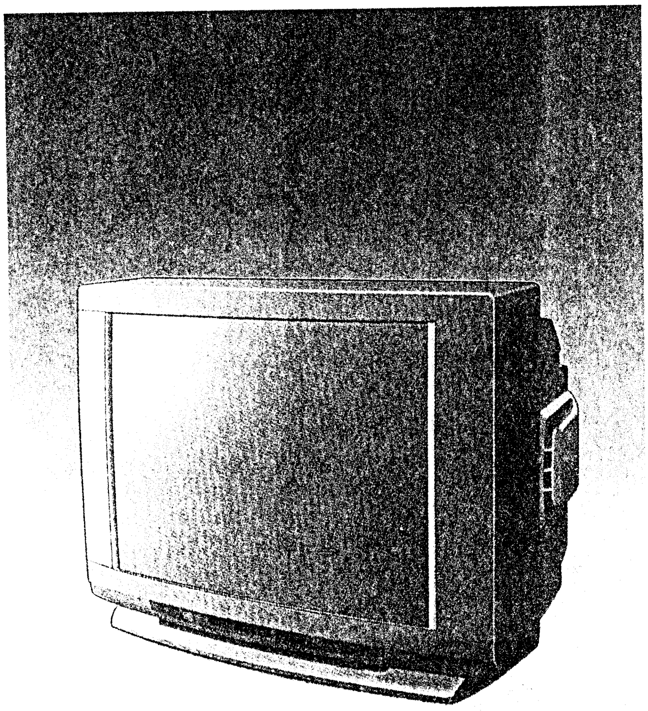
SAMSUNG

COLOR TELEVISION RECEIVER

CHASSIS : SCT52A
MODEL : CS721APF/SEAUX
CS721APF/SAPX
CS721APT/POLX
CS721APT/BOLIX
CS721APT/EUROX

SERVICE Manual

COLOR TELEVISION RECEIVER



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1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.

2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people--particularly children--might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

   If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (Figure 1-1): Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances),* and Underwriters Laboratories *(UL Publication UL1410, 59.7).*

5. With the unit completely reassembled, plug the AC line cord directly into the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

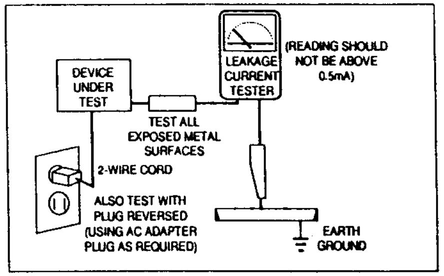
DEVICE UNDER TEST
LEAKAGE CURRENT TESTER
(READING SHOULD NOT BE ABOVE 0.5mA)
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

Fig. 1-1 AC Leakage Test

6. Antenna Cold Check:
   With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.

7. X-ray Limits:
   The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.

8. High Voltage Limits:
   High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits. Correct operation of the X-ray protection circuits must be reconfirmed whenever they are serviced. (X-ray protection circuits also may be called "horizontal disable" or "hold-down".)

   Heed the high voltage limits. These include the *X-ray Protection Specifications Label,* and the *Product Safety and X-ray Warning Note* on the service data schematic.

1-1 Safety Precautions (Continued)

9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.

10. Design Alteration Warning:
Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

11. Hot Chassis Warning:
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

    To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.

12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, *regardless of the AC plug polarity*. These units can be safely serviced *only* if an isolation transformer inserted between the receiver and the power source.

13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.

14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.

15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.

16. Picture Tube Implosion Warning:
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.

17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.

18. Product Safety Notice:
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

    Components that are critical for safety are indicated in the circuit diagram by shading, (⚠) or (⚠).
    Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

1-2 Servicing Precautions

WARNING1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

WARNING2: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.

2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.

3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.

4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.

5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).

6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.

    The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.

7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

8. Always connect a test instrument's ground lead to the instrument chassis ground *before* connecting the positive lead; always remove the instrument's ground lead last.

1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.

2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)

3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.

4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.

5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.

6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static"; these can accumulate sufficient electrical charge to damage ESDs.

7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.

8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

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2. Reference Information

2-1 Tables of Abbreviations and Acronyms

Table 2-1 Abbreviations

A	Ampere	MV	Megavolt
Ah	Ampere-hour	MW	Megawatt
Å	Angstrom	MΩ	Megohm
dB	Decibel	m	Meter
dBm	Decibel Referenced to One Milliwatt	μA	Microampere
		μF	Microfarad
°C	Degree Celsius	μH	Microhenry
°F	Degree Fahrenheit	μm	Micrometer
°K	degree Kelvin	μs	Microsecond
F	Farad	μW	Microwatt
G	Gauss	mA	Milliampere
GHz	Gigahertz	mg	Milligram
g	Gram	mH	Millihenry
H	Henry	ml	Milliliter
Hz	Hertz	mm	Millimeter
h	Hour	ms	Millisecond
ips	Inches Per Second	mV	Millivolt
kWh	Kilowatt-hour	nF	Nanofarad
kg	Kilogram	Ω	Ohm
kHz	Kilohertz	pF	Picofarad
kΩ	Kilohm	lb	Pound
km	Kilometer	rpm	Revolutions Per Minute
km/h	Kilometer Per Hour	rps	Revolutions Per Second
kV	Kilovolt	s	Second (Time)
kVA	Kilovolt-ampere	V	Volt
kW	Kilowatt	VA	Volt-ampere
l	Liter	W	Watt
MHz	Megahertz	Wh	Watt-hour

Table 2-2 Table of Acronyms

ABL	Automatic Brightness Limiter	I/O	Input/output
AC	Alternating Current	L	Left
ACC	Automatic Chroma Control	L	Low
AF	Audio Frequency	LED	Light Emitting Diode
AFC	Automatic Frequency Control	LF	Low Frequency
AFT	Automatic Fine Tuning	MOSFET	Metal-Oxide-Semiconductor-Field-Effect-Tr
AGC	Automatic Gain Control	MTS	Multi-channel Television Sound
AM	Amplitude Modulation	NAB	National Association of Broadcasters
ANSI	American National Standards Institute	NEC	National Electric Code
APC	Automatic Phase Control	NTSC	National Television Systems Committee
APC	Automatic Picture Control	OSD	On Screen Display
A/V	Audio-Video	PCB	Printed Circuit Board
AVC	Automatic Volume Control	PLL	Phase-Locked Loop
BAL	Balance	PWM	Pulse Width Modulation
BPF	Bandpass Filter	QIF	Quadrature Intermediate Frequency
B-Y	Blue-Y	R	Right
CATV	Community Antenna Television (Cable TV)	RC	Resistor & Capacitor
CB	Citizens Band	RF	Radio Frequency
CCD	Charge Coupled Device	R-Y	Red-Y
CCTV	Closed Circuit Television	SAP	Second Audio Program
Ch	Channel	SAW	Surface Acoustic Wave(Filter)
CRT	Cathode Ray Tube	SIF	Sound Intermediate Frequency
CW	Continuous Wave	SMPS	Switching Mode Power Supply
DC	Direct Current	S/N	Signal/Noise
DVM	Digital Volt Meter	SW	Switch
EIA	Electronics Industries Association	TP	Test Point
ESD	Electrostatic Discharge	TTL	Transistor Transistor Logic
ESD	Electrostatically Sensitive Device	TV	Television
FBP	Feedback Pulse	UHF	Ultra High Frequency
FBT	Flyback Transformer	UL	Underwriters Laboratories
FF	Flip-Flop	UV	Ultraviolet
FM	Frequency Modulation	VCD	Variable-Capacitance Diode
FS	Fail Safe	VCO	Voltage Controlled Oscillator
GND	Ground	VCXO	Voltage Controlled Crystal Oscillator
G-Y	Green-Y	VHF	Very High Frequency
H	High	VIF	Video Intermediate Frequency
HF	High-Frequency	VR	Variable Resistor
HI-FI	High Fidelity	VTR	Video Tape Recorder
IC	Inductance-Capacitance	VTVM	Vacuum Tube Voltmeter
IC	Integrated Circuit	TR	Transistor
IF	Intermediate Frequency		

2-2 IC Line Up

100 Series	IF processing (IF Board)
200 Series	Video, Chroma Processing
300 Series	Vertical Deflection
400 Series	Horizontal deflection
500 Series	CRT Drive Processing
600 Series	Sound Processing
700 Series	A/V Switching Processing
800 Series	AC Input Power Supply
900 Series	MICOM Section
100 Series	IF Section (Main Supply)
RT, CT, ICT	TELETEXT Section
RC, CC, HC, SWY	SNAP-IN Section (Control)
RV,CV,LV,QV	V/M Section
RJ,CJ,LJ,DJ,ICJ	NICAM Section
RP,CP,LP,XP,ICP	PIP Section
RC,CC,DZC,QC	COMB Filter Section
RP,PD	POWER-S/W Section

2-3 IC Line Up

Table 2-1 IC Line Up

Loc No	No	Specification	Description	Remarks
IC111	1	TDA9815	VIF-PLL/DUAL FM-PLL/AM DEMODULATOR	
IC201	2	TDA4566	COLOUR TRANSIENT IMPROVEMENT	
IC202	3	TDA9162	PAL/NTSC/SECAM DECODER AND SYNC PROCESSOR	
IC203	4	TDA4780	RGB VIDEO PROCESSOR	AUTOMATIC CUT-OFF CONTROL AND COMMA ADJUST
IC204	5	TDA4665	BASE BAND DELAY LINE	
IC205	6	TDA9170	YUV PICTURE IMPROVEMENT PROCESSOR	
IC206	7	MC14577BP	DUAL VIDEO AMPLIFIERS	
IC207	8	AN5342K	VIDEO CONTOUR COLLECTION	
IC208	9	TEA5114A	RGB SWITCHING	
IC209	10	MC14577	OP-AMPLIFIER	
IC301	11	LA7845	VERTICAL DEFLECTION	
IC501 IC502 IC503	12	TDA6101Q	VIDEO OUTPUT AMPLIFIER	
IC504	13	MC4588C	OP-AMPLIFIER	
IC601	14	TA8216H	AUDIO AMPLIFIER	
IC602	15	UPC1853	MATRIX SURROUND IC	
IC603	16	TDA9840	STEREO/DUAL SOUND PROCESSOR	
ICJ01	17	SAA7283	NICAM DECODER	
ICJ02	18	MC4558C	OP-AMPLIFIER	NICAM PART
IC170 IC702	19	TC4053BP	A/V SWITCHING IC	NICAM PART

Table 2-1 IC Line Up (Continued)

Loc No.	No.	Specification	Description	Remarks
IC703 IC704	20	KA2192	A/V SWITCHING IC	
IC801	21	STR-S6709	SMPS CONTROL	
IC901	22	RM118	MICOM	
IC902	23	XLS24C08P	EEPROM	TELETEXT PART
ICT01	24	SAA5281	TELETEXT	TELETEXT PART
ICT02	25	TEA5114A	RGB SWITCHING	
ICP101	26	TDA9160A	PAL/NTSC/SECAM DECODER AND SYNC PROCESSOR	PIP PART
ICP102	27	TDA9815	VIF-PLL	PIP PART
ICP103	28	PAP102	IF PRE-AMP	PIP PART
ICP201	29	SDA9187	PIP PROCESSOR	PIP PART
ICP105	30	SDA9189	PIP PROCESSOR	PIP PART
IC802	31	LTV817B	PHOTO-COUPLER	
IC803	32	TOP210ES	IC-LINEAR	

Option: OSD Language

Table 2-2

Loc No.	Specification	Description	Remarks
IC901	RM118 CIS	SSOM-118CIS	ENG/RUS/HUN/POL/CZE/CRO/ROM/BUL/TUR
	RM118 AS1A	SSOM-118ASIA	ENG/TAI/MAL/IND/VIET
	RM118 CHINA	SSOM-118CHINA	ENG/CHINA
	RM118 ARAB	SSOM-118ARAB	ENG/ARAB/IRAN

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3. Specifications

MODEL		721A/2901A
SYSTEM	TUNING	Frequency Synthesizer
	COLOUR	PAL, SECAM, NTSC3.58, NTSC4.43
	SOUND	B/G, D/K, I,M
	NICAM	B/G,I
ANTENNA IMPEDANCE		75 ohm unbalanced coaxial
SCREEN SIZE		70.8 cm
POWER	CONSUMPTION	140watts
	REQUIREMENTS	Main voltage : 220V/230V/240V∽ Cover range : 100 - 260V∽
	FREQUENCY	50/60Hz
PROGRAMME CHANNEL		100 channels
SOUND OUTPUT		15 watts/ch. x 2
DIMENSIONS (W x D x H)	SET	781 x 495 x 556 (mm)
	TRANSMITTER	With TTX :60 x 18 x 244 Without TTX : 60 x 19 x 210
WEIGHT	SET	52 Kg
	TRANSMITTER	140g (Including Batteries)

Specifications are subject to change.

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4. Disassembly and Reassembly

4-1 Cabinet

1. Remove 9 screws located on the side of the cabinet.
2. Pull the Main Assembly backwards to remove.
3. To reassemble, place the receiver on a flat surface and repeat the sequence in reverse order.
4. To check that the Chassis Assembly is installed correctly, attempt to pull it from the front cabinet.

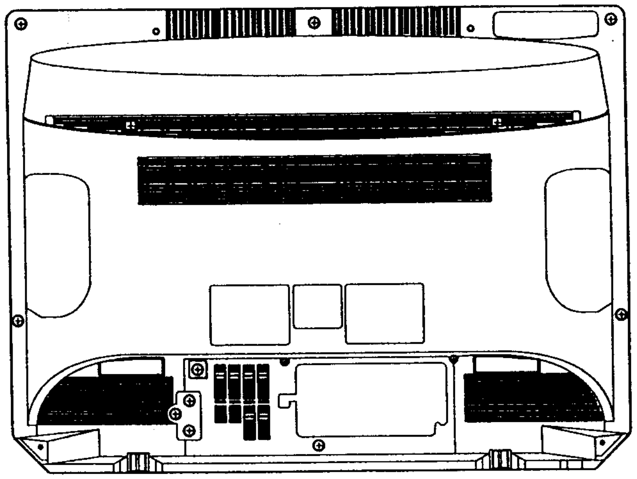


Fig. 4-1

4-2 Speaker

1. Separate Connectors ⓐ, ⓑ.
2. Spearate wires from twist-lock.
3. Remove 2 screws, ⓒ.
4. To reassemble, repeat the sequence in reverse order.

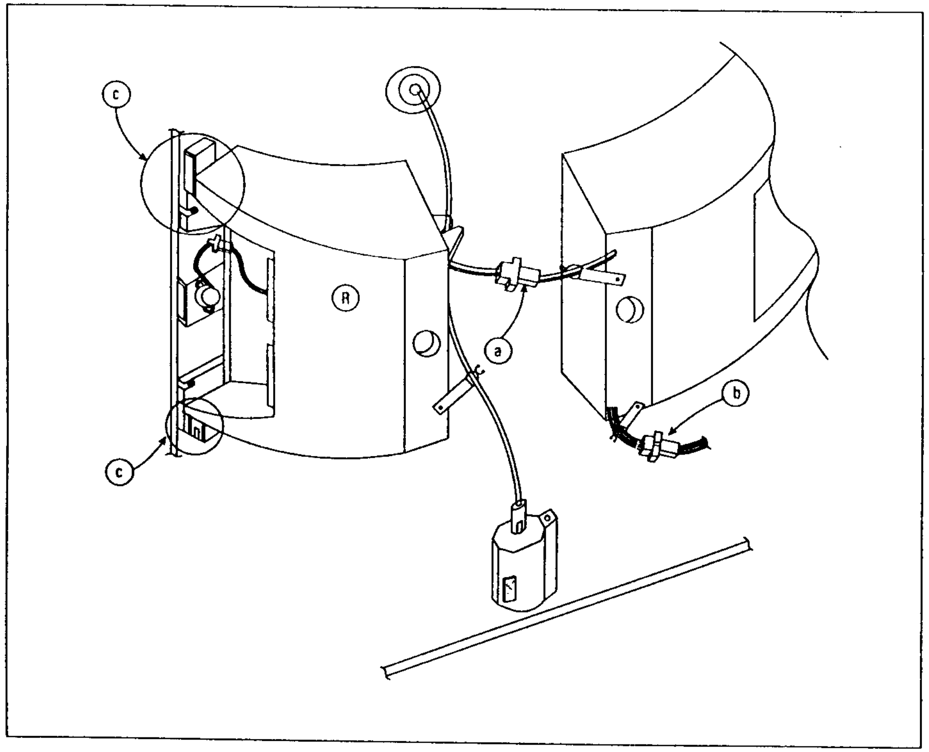


Fig. 4-2

4-3 Chassis Assembly

4-3-1 Removal from Front Cabinet

1. Lift and pull back the chassis mounting.

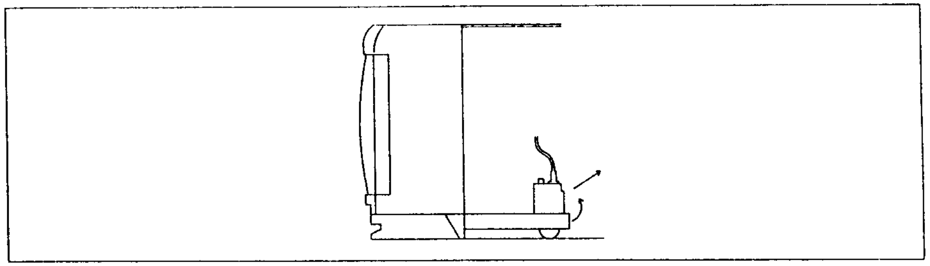


Fig. 4-3

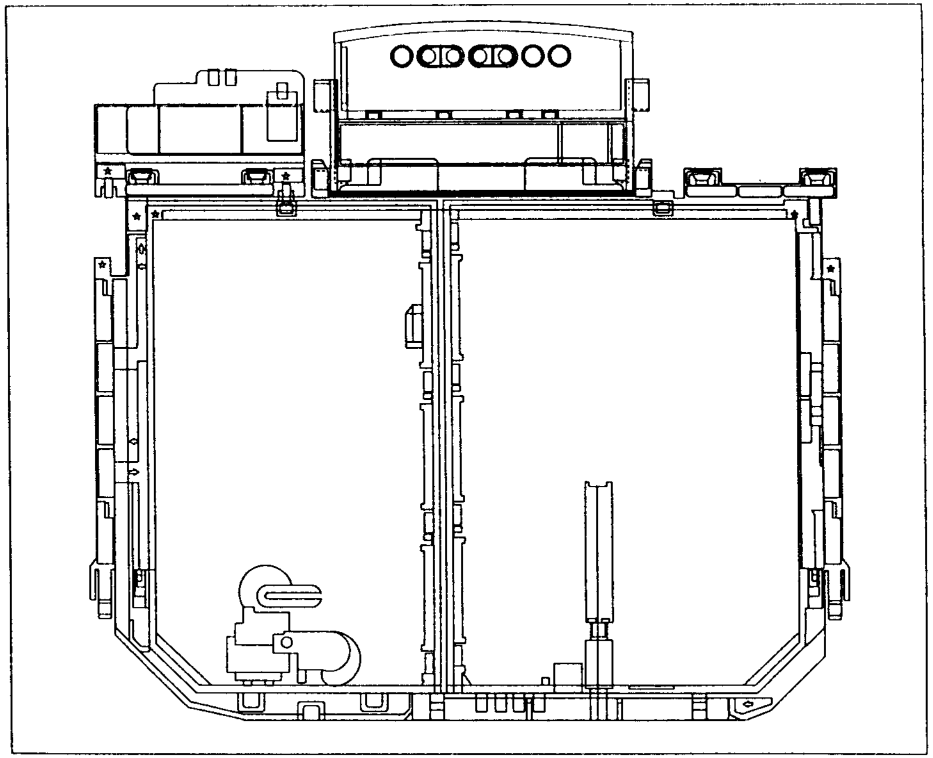


Fig. 4-4

4-3-2 Terminal Board

Removal

1. Pull the power cord to the left and remove it.
2. Remove 2 screws ⓐ.
3. Lift up the 2 brackets ⓑ. Separate the terminal board from the chassis mount.
4. To reassemble, refer to Fig. 4-6.

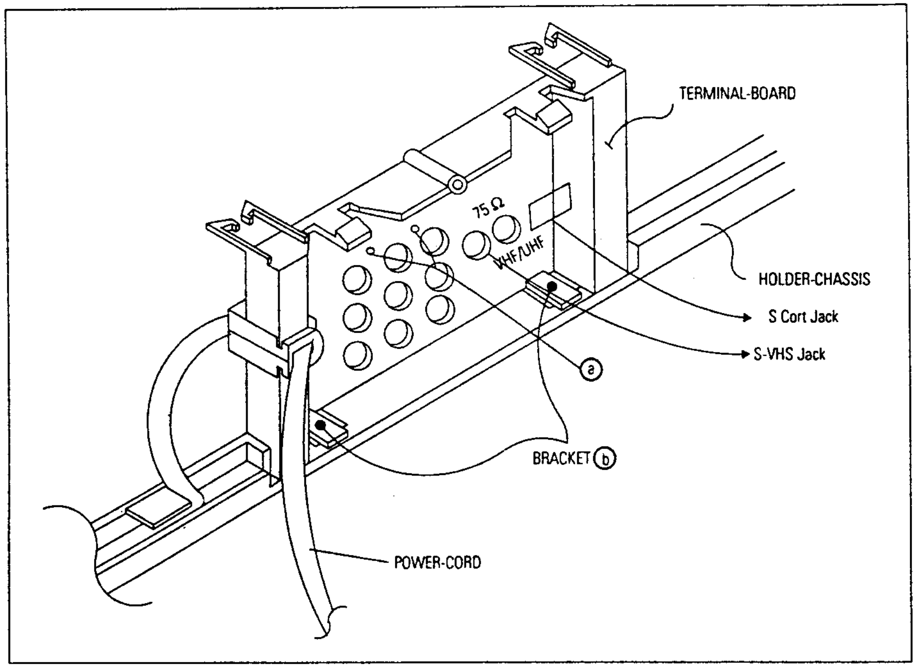
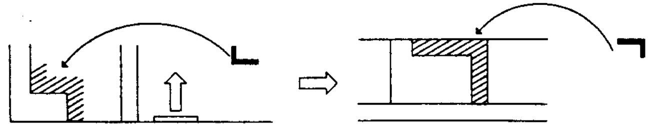


Fig. 4-5



Insert

"└" stuff on the left and right bottom of the terminal board to
"┐" hole on the holder chassis.

Fig. 4-6

4-3-3 PCB

Removal

1. Refer to the Fig. 4-4
2. Remove the wire (1P) from the chassis mounting.
3. Pull the PCB guides backwards.
4. Lift both edges of the PCB and pull it out.

Disassembly

1. Ensure that the PCB is well positioned in the PCB guides.
2. The power cord must not touch the heat-sink, D73.
3. Insert the PCB guide in the direction shown so that the two ☆s meet each other. The PCB guide is part of the chassis mounting; if a new PCB guide is needed, the complete chassis mounting must be replaced.

4-3-4 SNAPIN Removal

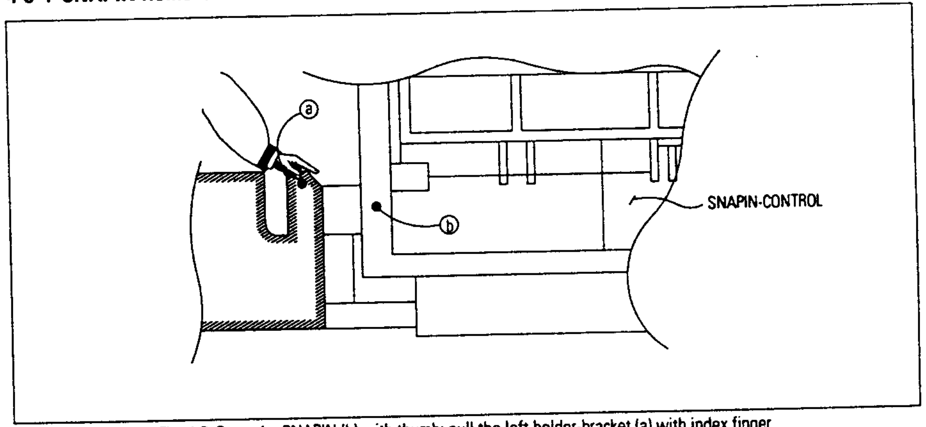


Fig. 4-7 Press the SNAPIN (b) with thumb; pull the left holder-bracket (a) with index finger.

4-3-5 Chassis Reassembly

1. Close the SNAPIN door.
2. Place the chassis bracket (b) onto (a) on the bottom of the front cabinet.
3. Push the bracket into the hole (a) until a "click" is heard.
4. Check that the SNAPIN door opens and closes.

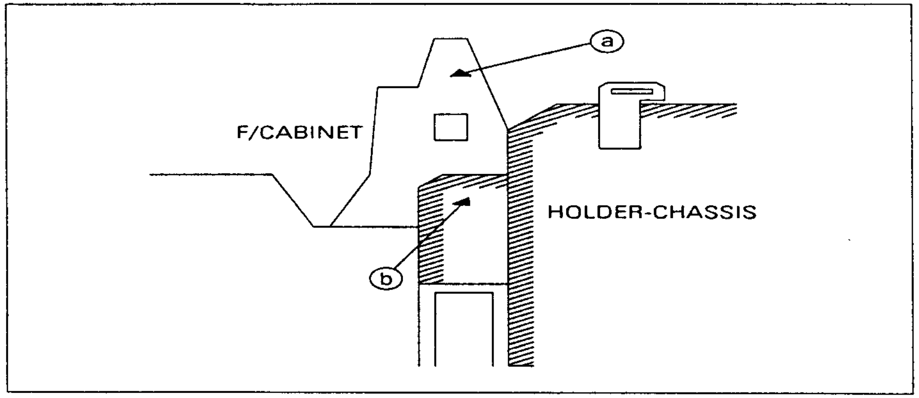


Fig. 4-8

5. Alignment and Adjustments

5-1 General Alignment Instructions

1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.
2. Observe the picture for good black and white details. There should be no objectionable color shading; if color shading is present, demagnetize, perform purity and convergence adjustments described below.
3. Use the specified test equipment or its equivalent.
4. Correct impedance matching is essential.
5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.
6. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
7. Do not attempt to connect or disconnect any wires while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
8. To protect against shock hazard, use an isolation transformer.

5-2 Automatic Degaussing

A degaussing coil is mounted around the picture tube, so that external degaussing after moving the TV should be unnecessary. But the receiver must be properly degaussed upon installation.

The degaussing coil operates for about 1 second after the power is switched ON. If the set is moved or turned in a different direction, the power should be OFF for at least 10 minutes.

If the chassis or parts of the cabinet become magnetized, poor color purity will result. If this happens, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube and the sides and front of the receiver. Slowly withdraw the coil to a distance of about 6 feet before turning power OFF.

If color shading persists, perform the following Color Purity and Convergence adjustments.

5-3 High Voltage Check

CAUTION: *There is no high voltage adjustment on this chassis. The B+ power supply should be +130 volts (with full color- bar input and normal picture level).*

1. Connect a digital voltmeter to the second anode of the picture tube.
2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).
3. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 32 KV under any conditions.

5-4 RF AGC Adjustment

1. Tune to the strongest local station. ·
2. Turn the AGC control fully clockwise (VR111, on the IF board).
3. Adjust the AGC control until noise (snow) disappears from the screen.

5-5 FOCUS Adjustment

1. Input a black and white signal.
2. Adjust the tuning control for clearest picture.
3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

5-6 SCREEN Adjustment

1. Turn to the ACTIVE channel.
2. Adjust the VR screen for a normal picture is (no blooming or flyback line).
3. Adjust the SCREEN control for well defined scanning lines in the center area of the screen.

5-7 Purity Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Plug in the CRT deflection yoke. Tighten the clamp screw.
3. Plug the convergence yoke into the CRT and set it as shown in Fig. 5-1.
4. Input a black and white signal.
5. Fully demagnetize the receiver by using an external degaussing coil.
6. Turn the CONTRAST and BRIGHTNESS controls to maximum.
7. Loosen the clamp screw holding the yoke. Slide the yoke backward or forward to produce a vertical green belt. (Fig. 5-2).
8. Tighten the convergence yoke.
9. Slowly move the deflection yoke forward. Adjust for the best overall green screen.
10. Temporarily tighten the deflection yoke.
11. Produce blue and red rasters by adjusting the -low-light controls. Check for good purity in each field.
12. Tighten the deflection yoke.

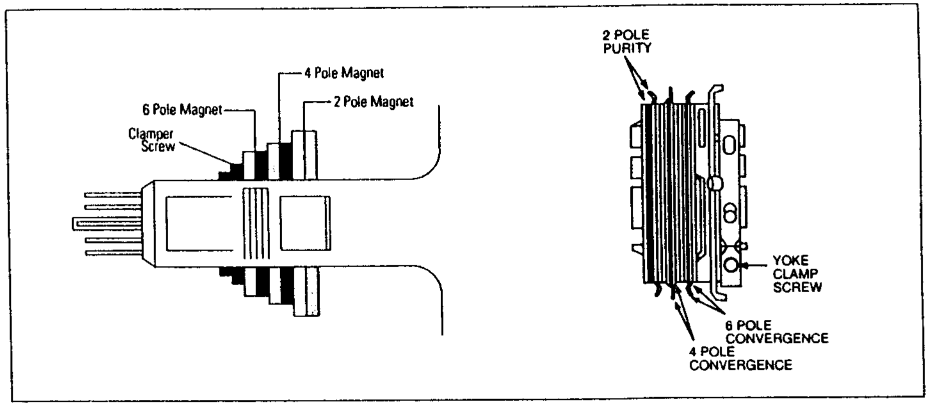


Fig. 5 -1 Convergence Magnet Assembly

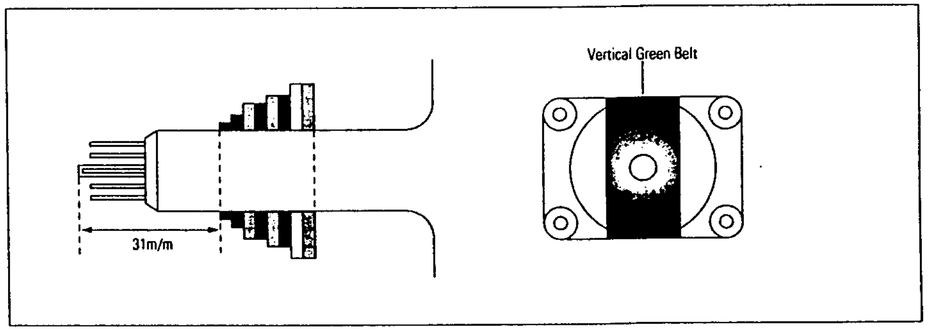


Fig. 5-2 Center Convergence Adjustment

5-8 Center Convergence Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Adjust the two tabs of the 4-pole magnets: Change the angle between them, and superimpose the red and blue vertical lines in the center area of the screen.
3. Adjust the BRIGHTNESS and CONTRAST controls for a well-defined picture.
4. Adjust the two tabs of the 4-pole magnets: Change the angle between them. Superimpose the red and the blue vertical lines in the center area of the screen.
5. Turn both tabs at the same time, keeping the angle constant: Superimpose the red and blue horizontal lines in the center of the screen.
6. Adjust two tabs of 6-pole magnets: Superimpose the red and blue lines with the green. Adjusting the angle affects the vertical lines, and rotating both magnets affects the horizontal lines.
7. Repeat adjustments 2~4, if necessary.
8. Since the 4-pole and 6-pole magnets interact, the dot movement is complex (Fig. 5-3).

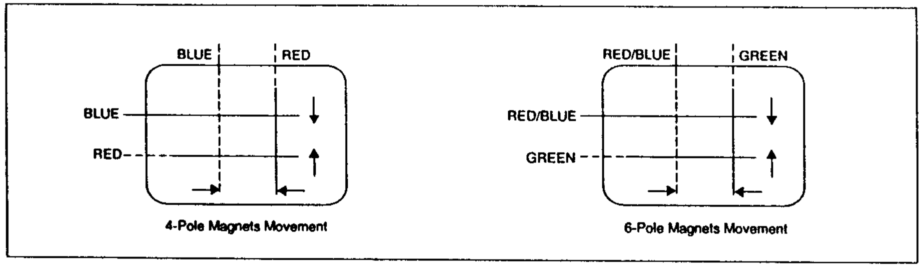


Fig 5-3 Center Convergence Adjustment

5-9 Manual Alignment (Factory Mode)

1. Enter the Factory Mode. Press the remote-control keys in this sequence:

PICTURE OFF ⇒ SLEEP ⇒ P.STD ⇒ MUTE ⇒ PICTURE ON

2. Use the CHANNEL and VOLUME keys (Up/Down) to move the cursor. Select an alignment parameter:

service mode
adjustment
test pattern
option bytes
reset
bonus

3. Adjustment must be done for both 50Hz and 60Hz field rates:

SBT 00	GG 28
SCR 13	BG 34
SCT 07	PW 63
STT 08	GAM 00
RRC 37	ALS 05
GRC 31	ASS 25
BRC 50	PCT 06
RG 50	PTT 38

Adjustment I

Table 5-1

Function	OSD	Range	Note
SUB-BRIGHT	SBT	00~13	
SUB-COLOR	SCR	00~13	
SUB-CONTRAST	SCT	00~13	
SUB-TINT	STT	00~13	Low-light adjustment
RED REFERENCE	RRC	00~63	•
GREEN REFERENCE	GRC	00~63	•
BLUE REFERENCE	BRC	00~63	High-light adjustment
RED GAIN	RG	00~63	•
GREEN GAIN	GG	00~63	•
BLUE GAIN	BG	00~63	
PEAK WHITE	PW	00~63	
GAMMA	GAM	00~63	
AUDIO LEVEL SETTING	ALS	00~15	
AUDIO SEPARATION SETTING	ASS	00~63	
PIP CONTRAST	PCT	00~15	
PIP TINT	PTT	00~63	

4. Access Adjustment II by pressing the CHANNEL keys (Up/Down) while the cursor is positioned on "SBT" or "PTT" (see Adjustment I):

PHS 20	PVA 41
PEW 41	PSC 31
PEP 25	PVS 33
PEC 27	HSP 10
PET 27	PVP 10
PSL 31	PHP 68

Adjustment II - 50Hz Picture

NHS 13	NVA 42
NEW 41	NSC 31
NEP 25	NVS 38
NEC 31	HSN 10
NET 30	NVP 00
NSL 31	NHP 68

Adjustment II - 60Hz Picture

Table 5-2

Function	OSD	Range
PAL HORIZONTAL SHIFT	PHS	00-63
NTSC HORIZONTAL SHIFT	NHS	00-63
PAL E-W WIDTH	PEW	00-63
NTSC E-W WIDTH	NEW	00-63
PAL E-W PARABOLA	PEP	00-63
NTSC E-W PARABOLA	NEP	00-63
PAL E-W TRAPEZIUM	PET	00-63
NTSC E-W TRAPEZIUM	NET	00-63
PAL VERTICAL SLOPE	PSL	00-63
NTSC VERTICAL SLOPE	NSL	00-63
PAL VERTICAL AMPLITUDE	PVA	00-63
NTSC VERTICAL AMPLITUDE	NVA	00-63
PAL S CORRECTION	PSC	00-63
NTSC S CORRECTION	NSC	00-63
PAL VERTICAL SHIFT	PVS	00-63
NTSC VERTICAL SHIFT	NVS	00-63
PIP PAL HORIZONTAL SHIFT	HSP	05-20
PIP NTSC HORIZONTAL SHIFT	HSN	00-20
PIP PAL VERTICAL POSITION	PVP	00-33
PIP NTSC VERTICAL POSITION	PVN	00-33
PIP PAL HORIZONTAL POSITION	PHP	00-83
PIP NTSC HORIZONTAL POSITION	PHN	00-83

5. After the Factory Mode Adjustments are completed, return to the first menu and set up "Test Pattern," "Option" and "Bonus." Use the CHANNEL and VOLUME keys to position the cursor and make a selection:

7-Color bar
Cross hatch
Red
Green
Blue

Test Patern I

Kara-OK	Off
TTX	On
CCIR	
Flof	
Lock	Off
Tilt	On
Zoom	On
OSD Language Select	

Option Bytes

OE	00
BON	01
WD	08
01	39
02	31
03	21
AMS	00
SVR	00

Bonus (see data, below)

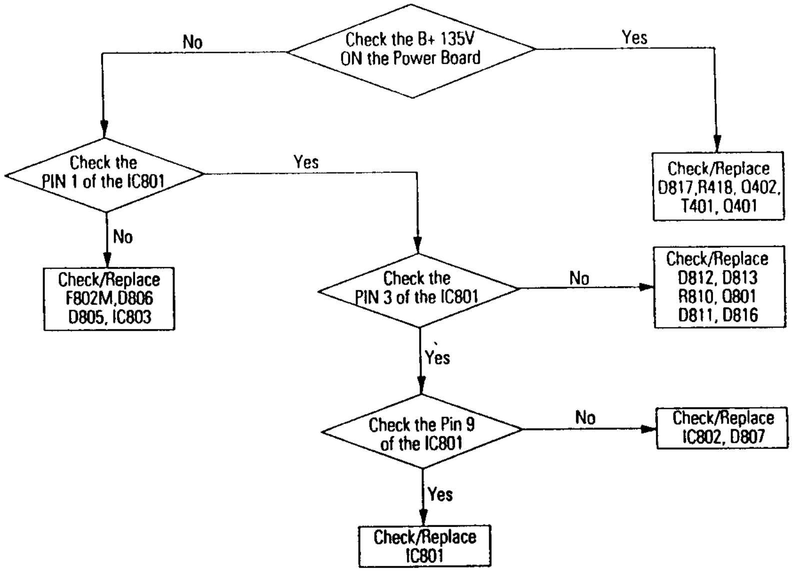
Table 5-3

Content	OSD
TDA4780 BLACK STRETCH	OE
TDA9170 BLACK OFFSET COMPENSATION ENABLE	BON
TDA9170 WINDOW SELECT	WD
USER VARIABLE GAMMA (TDA9170)	01
ADAPTIVE GAMMA (TDA9170)	02
NON LINEARITY AMPLITUDE (TDA9170)	03
AMPLITUDE SELECTION (TDA9170)	AMS
FULL SCREEN BLACK LEVEL (TDA9170)	SVR

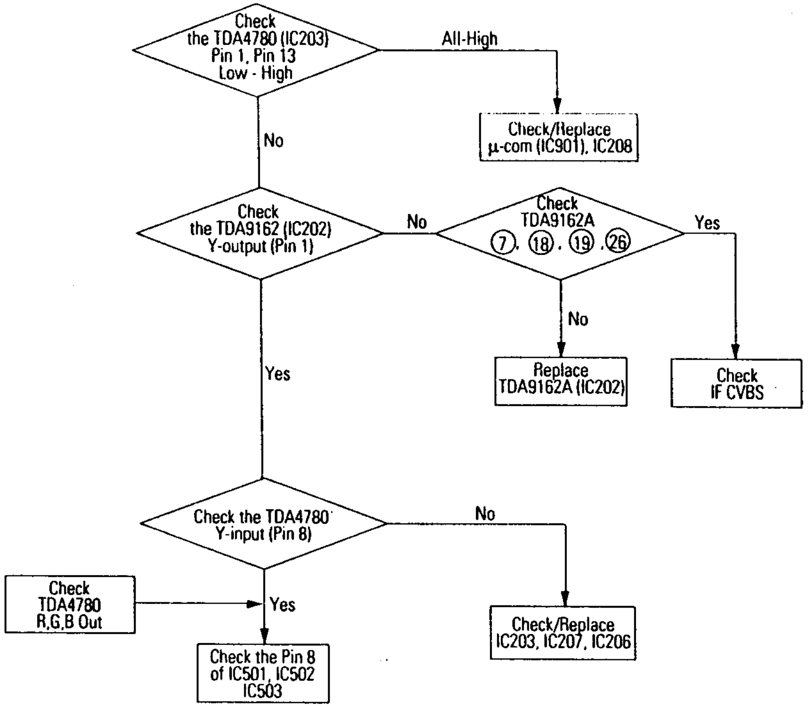
MEMO

6. Troubleshooting

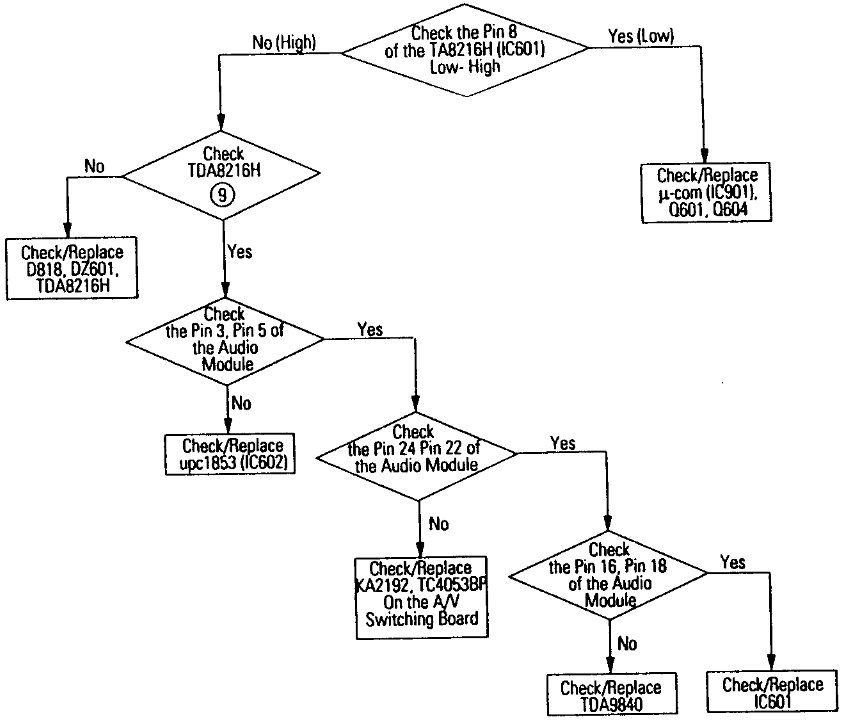
6-1 No Power


Check the B+ 135V ON the Power Board
No
Yes
Check the PIN 1 of the IC801
Yes
Check/Replace D817,R418, Q402, T401, Q401
No
Check/Replace F802M,D806 D805, IC803
Check the PIN 3 of the IC801
No
Check/Replace D812, D813 R810, Q801 D811, D816
Yes
Check the Pin 9 of the IC801
No
Check/Replace IC802, D807
Yes
Check/Replace IC801

6-2 No Picture

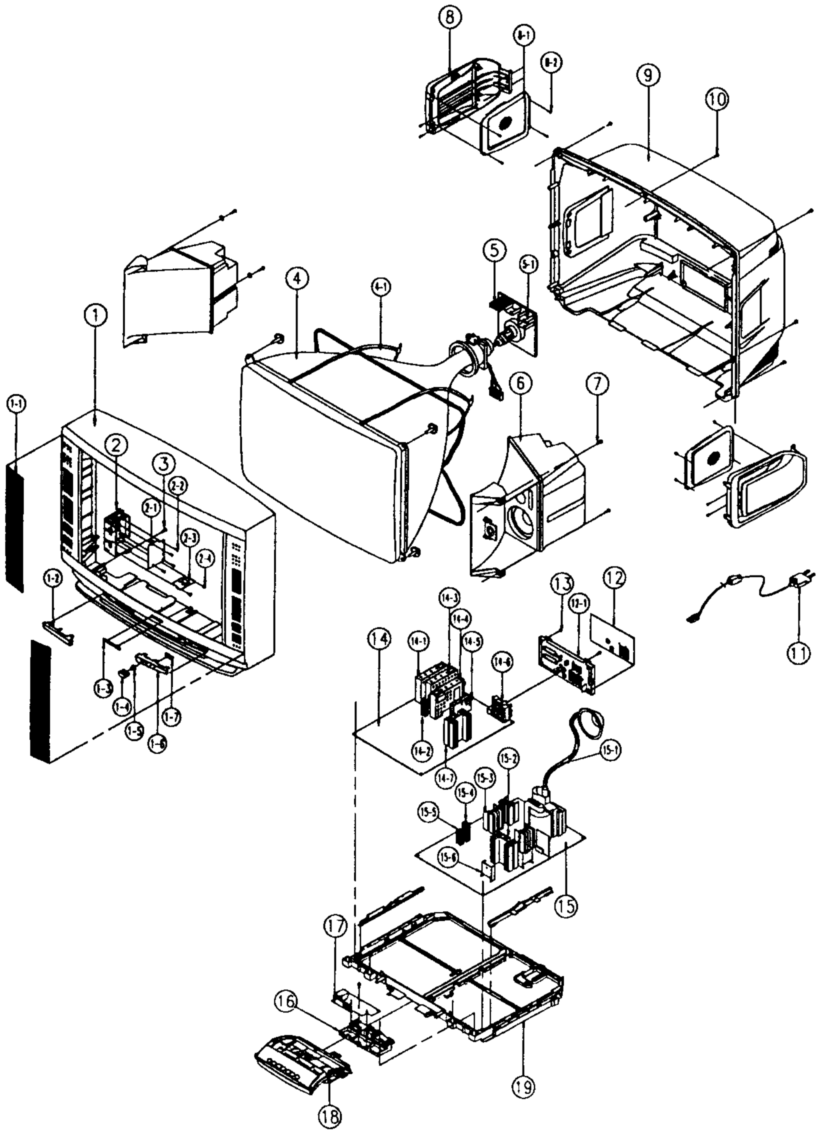

Check
the TDA4780 (IC203)
Pin 1, Pin 13
Low - High
All-High
Check/Replace
µ-com (IC901), IC208
No
Check
the TDA9162 (IC202)
Y-output (Pin 1)
No
Check
TDA9162A
⑦, ⑱, ⑲, ㉖
Yes
No
Replace
TDA9162A (IC202)
Check
IF CVBS
Yes
Check the TDA4780
Y-input (Pin 8)
No
Check
TDA4780
R,G,B Out
Yes
Check the Pin 8
of IC501, IC502
IC503
Check/Replace
IC203, IC207, IC206

6-3 No Sound


Check the Pin 8
of the TA8216H (IC601)
Low- High
No (High)
Yes (Low)
Check/Replace
µ-com (IC901),
Q601, Q604
Check
TDA8216H
⑨
No
Check/Replace
D818, DZ601,
TDA8216H
Yes
Check
the Pin 3, Pin 5 of
the Audio
Module
Yes
No
Check/Replace
upc1853 (IC602)
Check
the Pin 24 Pin 22 of
the Audio Module
Yes
No
Check/Replace
KA2192, TC4053BP
On the A/V
Switching Board
Check
the Pin 16, Pin 18
of the Audio
Module
Yes
No
Check/Replace
TDA9840
Check/Replace
IC601

7. Exploded View and Parts List

7-1CS721APT Common



No	OLD Code	NEW Code	Description	Specification	Remarks	Q'ty
1		AA91-10256F	ASSY-CABINET.FRONT	-.HB.-.WP1000 EXP L/G.725		1
		AA64-30824D	CABINET-FRONT	-.HIPS.HB.-.-.BLK.WP1000.		1
1-1		AA63-50260A	GRILLE-SHEET	-.PS.-.T0.5.-.-.2955		2
1-2		AA64-40367B	WINDOW-LEFT.NR	-.ABS.HB.-.BRN.-.CT2955		1
1-3	34533-0075-010	AA64-70011B	BADGE-BRAND	-.AL.-.L60.SILVER.R2000 S		1
1-4		AA64-10570B	KNOB-POWER	-.ABS.HB.BRN.-.7255		1
1-5	36673-103-070	AA61-60005K	SPRING-CS	-.-.SUS304.0.6.0D12.2.H13		1
1-6		AA64-40399B	WINDOW-RIGHT.ASSY	-.-.-.-.-.-.62.7255		1
1-7		AA64-40372A	INDICATOR-LED	-.ACRYL.-.-.CLEAR.-.2955		1
2		AA95-90010M	ASSY-A/V SIDE	-.CS7255PF.SCT52A.SUPER J		1
2-1		AA41-10561A	PCB-HEADPHONE	K1025.1L.FR-1.56.5X43.5X1		1
2-2	37148-530-101	6002-000406	SCREW-TAPPING	RH.+.2.M3.L10.ZPC(YEL).SW		4
2-3		AA41-10599A	PCB-SIDE AV	SCT52A.1L.FR-1.330X245X1.		1
2-4	37148-530-101	6002-000406	SCREW-TAPPING	RH.+.2.M3.L10.ZPC(YEL).SW		2
3	30509-0004-000	6002-000516	SCREW-TAPPING	RH.+.2.M4.L20.ZPC(BLK).SW		2
4		AA03-10019B	CRT-COLOR	-.A70QAZ761X001(B).+500MG		1
4-1	A1149-0032	AA27-20002Q	COIL-DEGAUSSING	-.29".140HM.70T.L3300.E		1
5		AA95-20005U	ASSY-PCB.CRT	-.SCT52A.29".-.1"MORE		1
5-1	32119-110-111	1201-000506	IC-VIDEO AMP	6101.ZIP.9P.-.SINGLE.-.PL	IC501.2.3	3
6	3H93-52955-010	AA91-60047A	ASSY-HOLDER.SPK	-.PP.-.-.8OHM 15W.-		1
7		AA60-10050A	SCREW-ASSY	WP.RH.+.M4.L25.SWRCH18A.-		4
8		AA91-60202A	ASSY-HOLDER.SPK	-.HIPS.V0.BLK.RIGHT.2955		1
		AA91-60202B	ASSY-HOLDER.SPK	-.HIPS.V0.BLK.LEFT.2955		1
8-1	AA63-50259A		GRILLE-WOOFER	SECC.T0.6.BLK.3R.2955		2
8-2	37148-540-153	6002-000514	SCREW-TAPPING	RH.+.2.M4.L15.ZPC(BLK).SW		8
9		AA64-30825A	CABINET-BACK	-.HIPS.V0.-.-.DGR.-.2955		1
10	30509-0004-000	6002-000516	SCREW-TAPPING	RH.+.2.M4.L20.ZPC(BLK).SW		7
11		AA39-10006X	POWER-CORD	-.KKP419C.KLCE-2F.2.286MT		1
12		AA64-60383A	INLAY-BACK	-.PS.T0.5.-.BLK.SCT52A.72		1
12-1		AA91-80050C	ASSY-TERMINAL.BOARD	-.-.-.-.SCT52A.PIP.7255PF		1
13	30509-0004-000	6002-000516	SCREW-TAPPING	RH.+.2.M4.L20.ZPC(BLK).SW		2
14		AA94-10082X	ASSY-PCB.MAIN(OPT)	CS721APTR/BWX.SCT52A.CIS		1
14-1		AA95-90010S	ASSY-PCB.PIP	-.CS7255PF.SCT52A.CS.-.-		1
14-2	A4008-0520	1203-000298	IC-POSI.FIXED REG.	7809.T0-220.3P.-.PLASTIC.	IC8004	1
14-3	A1292-0081	AA40-10002N	TUNER-F/S	-.TECC0889PA19C.PAL-MULTI		1
14-4		AA95-90012Z	ASSY-PCB.IF	-.CS7255PF.SCT52A.W/O CZE		1
14-5	AA40-10001U	A1292-0040	TUNER-F/S	TECC1880PA09(S).NTSC		1
14-6		AA95-90010N	ASSY-PCB.A/V SWITCH	-.CS7255PF.SCT52A.CS.-.-		1
14-7	A4008-1140	1203-000165	IC-POSI.ADJUST REG.	78R12.T0-220.3P.-.-.12V.-	IC8005	1
15		AA95-10007R	ASSY-PCB.POWER	CS7255PF.SCT52A.29".100-2		1
15-1	A1201-0071	AA26-30003B	TRANS-FRYBACK	-.FCZ-29A006.29".130V		1
15-2	A4052-0058	0502-000298	TR-POWER	KSD73-Y.NPN.30W.T0-220.-.	Q405	1
15-3	B4010-0042	AA13-20002K	IC-HYBRID	-.STR-S6709 LF953.SIP.9P.	IC801	1
15-5	32169-101-090	0402-000233	DIODE-RECTIFIER	FML-G12S.200V.5A.-	D818	1
15-6	32169-101-100	0402-000549	DIODE-BRIDGE	RBV606.600V.6A.-	D806	1
16		AA61-20208A	HOLDER-PCB.SUB	-.HIPS.HB.BLK.-.2955		1
17		AA95-90010L	ASSY-POWER S/W	-.CS7255PF.SCT52A.PAL.-.-		1
18		AA91-20052B	ASSY-DRAWER	-.-.SCT52A L/GRY.7255		1
19		AA61-20207A	HOLDER-CHASSIS	-.ABS.V0.-.GRY.2955		1

8. Electric Parts List

8-1 CS721APF Dissimilar Parts

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
		ASSY-PCB,MAIN(OPT) BUYER : SEAU (AUSTRALIA) BUYER : SAPL (SINGAPORE)			
*		AA94-10087M	ASSY-PCB.MAIN(OPT)	CS721APF/SEAUX.CS721APF.A	SEAU
*		AA94-10087X	ASSY-PCB.MAIN(OPT)	CS721APF/SAPX.SCT52A.SING	SAPL
C2141		2401-000272	C-AL	100UF.20%.16V.GP.6.3X7MM.	
IC201		1204-000636	IC-PICTURE PROCESS	TDA4566.DIP.18P.300MIL.PL	
R2153		2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
		ASSY-PCB,POWER			
*		AA95-10007R	ASSY-PCB.POWER	CS7255PF.SCT52A.29".100-2	
IC803		1203-000640	IC-PWM CONTROLLER	210.DIP.8P.245MIL.PLASTIC	
R417		2008-000221	R-FUSIBLE	0.47OHM.10%.1/2W.AA.TP.4.	
		ASSY-CRT			
		AA03-10019K	CRT-COLOR	-.A70QAZ761X001(B).-500MG	SEAU
		AA03-10019G	CRT-COLOR	-.A70QAZ761X001(B).-100MG	SAPL
		ASSY-PCB,CRT			
*		AA95-20005U	ASSY-PCB.CRT	-.SCT52A.29".-.1"MORE	
CP501		AA39-20025E	LEAD-CONNECTOR.ASSY	-.67096-010.S.10P.400.100	
CP501		AA39-20025E	LEAD-CONNECTOR.ASSY	-.67096-010.S.10P.400.100	
IC501.2.3		1201-000539	IC-VIDEO AMP	6101.ZIP.9P.-.SINGLE.-.PL	
		ASSY-PCB,TTX			
*		AA95-90003U	ASSY-PCB.TTX	-.CS7277PF/MVTX.SCT51A.BG	
CT01		2305-000412	C-FILM.MPEF	470NF.5%.63V.-.5MM.TP	
CT14		2201-000119	C-CERAMIC.DISC	100NF.+80-20%.50V.Y5V.8X5	
ICT01		1204-000535	IC-PAL DECODER	SAA5281P/E.DIP.48P.-.PLAS	
R20		2004-000971	R-METAL	470OHM.1%.1/8W.AA.TP.1.8X	
RT06		2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
		ASSY-POWER S/W			
*		AA95-90010L	ASSY-POWER S/W	-.CS7255PF.SCT52A.PAL.-.-	
		AA96-30003A	ASSY-LED.GUIDE	-.AA61-50106A.DL-G8RGA.RE	
		ASSY-PCB,A/V SWITCH			
*		AA95-90010N	ASSY-PCB.A/V SWITCH	-.CS7255PF.SCT52A.CS.-.-	
RW701		2011-001058	R-NETWORK	75/75/1K/75OHM.5%.1/8W.X.	
RW702		2011-001059	R-NETWORK	33K/24/75/75/75OHM.5%.1/8	

ASSY-PCB,AUDIO

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
*		AA95-90010P	ASSY-PCB,AUDIO	-,CS7255PF,SCT52A,NICAM,-	
C692		2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
C693		2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
CJ01		2305-000412	C-FILM,MPEF	470NF,5%,63V,-,5MM,TP	
CJ02		2203-000192	C-CERAMIC,CHIP	100NF,+80-20%,50V,Y5V,201	
CJ03		2203-000237	C-CERAMIC,CHIP	100PF,5%,50V,NP0,2012,2.0	
CJ04		2203-000237	C-CERAMIC,CHIP	100PF,5%,50V,NP0,2012,2.0	
CJ05		2203-000753	C-CERAMIC,CHIP	330NF,+80-20%,50V,Y5V,321	
CJ06		2203-000607	C-CERAMIC,CHIP	22NF,10%,50V,X7R,2012,2.0	
CJ07		2203-000192	C-CERAMIC,CHIP	100NF,+80-20%,50V,Y5V,201	
CJ08		2401-000440	C-AL	10UF,20%,25V,GP,5X11MM,5M	
CJ09		2401-000603	C-AL	1UF,20%,50V,GP,5X11MM,5MM	
CJ10		2203-000192	C-CERAMIC,CHIP	100NF,+80-20%,50V,Y5V,201	
CJ11		2203-000192	C-CERAMIC,CHIP	100NF,+80-20%,50V,Y5V,201	
CJ12		2401-000440	C-AL	10UF,20%,25V,GP,5X11MM,5M	
CJ13		2203-000593	C-CERAMIC,CHIP	220PF,5%,50V,NP0,2012,2.0	
CJ14		2401-000440	C-AL	10UF,20%,25V,GP,5X11MM,5M	
CJ15		2203-000295	C-CERAMIC,CHIP	10PF,5%,50V,NP0,2012,-,TP	
CJ16		2401-000440	C-AL	10UF,20%,25V,GP,5X11MM,5M	
CJ17		2203-000192	C-CERAMIC,CHIP	100NF,+80-20%,50V,Y5V,201	
CJ18		2203-000835	C-CERAMIC,CHIP	390PF,10%,50V,NP0,2012,2.	
CJ19		2203-000192	C-CERAMIC,CHIP	100NF,+80-20%,50V,Y5V,201	
CJ20		2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
CJ21		2401-000440	C-AL	10UF,20%,25V,GP,5X11MM,5M	
CJ22		2203-000979	C-CERAMIC,CHIP	47NF,10%,50V,X7R,2012,-,T	
CJ23		2401-000440	C-AL	10UF,20%,25V,GP,5X11MM,5M	
CJ24		2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
CJ25		2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
CJ26		2203-000192	C-CERAMIC,CHIP	100NF,+80-20%,50V,Y5V,201	
CJ27		2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
CJ28		2401-000440	C-AL	10UF,20%,25V,GP,5X11MM,5M	
CJ29		2203-000192	C-CERAMIC,CHIP	100NF,+80-20%,50V,Y5V,201	
CJ30		2203-000192	C-CERAMIC,CHIP	100NF,+80-20%,50V,Y5V,201	
CJ31		2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
CJ32		2401-001264	C-AL	4.7UF,20%,50V,BP,6X11MM,5	
CJ33		2203-001223	C-CERAMIC,CHIP	820PF,10%,50V,X7R,2012,2.	
CJ34		2401-001264	C-AL	4.7UF,20%,50V,BP,6X11MM,5	
CJ35		2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
CJ36		2203-001223	C-CERAMIC,CHIP	820PF,10%,50V,X7R,2012,2.	
DJ01		0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,500MW,4N	
DJ02		0405-000108	DIODE-VARACTOR	BB405B,28V,10NA,DO-34,TP	
ICJ01		1204-000449	IC-DECODER	SAA7283ZP,DIP,52P,600MIL,	
ICJ02		1201-000191	IC-OP AMP	4558,DIP,8P,300MIL,DUAL,2	
LJ01		2701-000114	INDUCTOR-AXIAL	10UH,10%,2.5X3.4MM	
LJ02		2701-000208	INDUCTOR-AXIAL	6.8UH,10%,2.5X3.4MM	
RJ01		2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,201	
RJ02		2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,201	
RJ03		2007-001113	R-CHIP	680KOHM,5%,1/10W,DA,TP,20	
RJ04		2007-000593	R-CHIP	22OHM,5%,1/10W,DA,TP,2012	
RJ05		2007-000477	R-CHIP	1MOHM,5%,1/10W,DA,TP,2012	
RJ06		2007-000586	R-CHIP	22KOHM,5%,1/10W,DA,TP,201	
RJ07		2007-000300	R-CHIP	10KOHM,5%,1/10W,DA,TP,201	
RJ08		2001-001096	R-CARBON(S)	2.2OHM,5%,1/2W,AA,TP,2.4X	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
RJ09		2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,201	
RJ10		2007-000468	R-CHIP	1KOHM,5%,1/10W,DA,TP,2012	
RJ12		2007-000774	R-CHIP	33KOHM,5%,1/10W,DA,TP,201	
RJ13		2007-000267	R-CHIP	1.8KOHM,5%,1/10W,DA,TP,20	
RJ14		2007-000034	R-CHIP	1OHM,5%,1/8W,DA,TP,3216	
RJ15		2007-000308	R-CHIP	10OHM,5%,1/10W,DA,TP,2012	
RJ16		2007-000300	R-CHIP	10KOHM,5%,1/10W,DA,TP,201	
RJ17		2007-000282	R-CHIP	100KOHM,5%,1/10W,DA,TP,20	
RJ18		2007-000300	R-CHIP	10KOHM,5%,1/10W,DA,TP,201	
RJ19		2007-000282	R-CHIP	100KOHM,5%,1/10W,DA,TP,20	
RJ20		2007-000981	R-CHIP	5.6KOHM,5%,1/10W,DA,TP,20	
RJ21		2007-000981	R-CHIP	5.6KOHM,5%,1/10W,DA,TP,20	
RJ22		2007-000282	R-CHIP	100KOHM,5%,1/10W,DA,TP,20	
RJ23		2007-000300	R-CHIP	10KOHM,5%,1/10W,DA,TP,201	
RJ24		2007-000300	R-CHIP	10KOHM,5%,1/10W,DA,TP,201	
RJ25		2007-000282	R-CHIP	100KOHM,5%,1/10W,DA,TP,20	
XJ01		2801-000992	CRYSTAL-UNIT	8.192MHZ,30PPM,28-AAM,15P	

ASSY-PCB,PIP

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
*		AA95-90010S	ASSY-PCB,PIP	-,CS7255PF,SCT52A,CS,-,-	
ICP105		1204-000635	IC-PICTURE PROCESS	SDA9189X,SOP,32P,350MIL,P	
RP134		2007-000872	R-CHIP	4.7KOHM,5%,1/10W,DA,TP,20	

ASSY-PCB,IF

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
*		AA95-90012Z	ASSY-PCB,IF	-,CS7255PF,SCT52A,W/O CZE	
Z112		2903-001019	FILTER-CERAMIC	TR,5.5/5.742MHZ	
ZN111		2903-001022	FILTER-CERAMIC	TR,4.5MHZ	

ASSY-PCB,SNAP IN

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
*		AA95-90013D	ASSY-PCB,SNAP IN	-,7255,SCT52A,PAL,-,GOLD	
		AA91-20052D	ASSY-DRAWER	-,-,EXPORT GOLD,7255	

ASSY-PCB,A/V SIDE

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
*		AA95-90013E	ASSY-PCB,A/V SIDE	-,7255,SCT52A,PAL,-,SUPER	
		AA39-20009C	LEAD-CONNECTOR,ASSY	-,YFH800-01,-,1P,400,1015	
		AA64-60355G	INLAY-AV	7255,SCT52A GOLD,PS,TO,3,	

ASSY-POWER,CORD

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
		AA39-10005N	POWER-CORD	-,KKP-560A,KLCE-2F,2.59,3	

ASSY-ACCESSORY

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
		AA68-10845A	MANUAL-USERS	SCT52A,S/W 120(G),A4,ENGL	

ASSY-CABINET(OPT)

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
		AA91-10256H	ASSY-CABINET,FRONT	-,CS721A,WP1000 SEAU,VO,-	
		AA64-30824F	CABINET-FRONT	-,CS721A,WP1000 SEAU,ABS,	
		AA64-70011D	BADGE-BRAND	AL,SS R2000 25,GOLD,L60,-	
		AA64-60361D	INLAY-DRAWER	7255,EG,PS,TO,3,BLK,-,-	

8-2 CS721APT Dissimilar Parts

ASSY-PCB,MAIN(OPT)

BUYER : SEPOL (POLAND)
BUYER : BOLI (BULGARIA)
BUYER : EUROPATRAD (CROATIA)

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA94-10087C	ASSY-PCB.MAIN(OPT)	CS721APT/POLX.SCT52A.POLA	SEPOL
•		AA94-10086Z	ASSY-PCB.MAIN(OPT)	CS721APT/BOLIX.SCT52A.BUL	BOLI
		AA94-10087B	ASSY-PCB.MAIN(OPT)	CS721APT/EUROX.SCT52A.CRO	EUROPATRAD
IC201		1204-000636	IC-PICTURE PROCESS	TDA4566.DIP.18P.300MIL.PL	
R2153		2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
C2141		2401-000272	C-AL	100UF.20%.16V.GP.6.3X7MM.	

ASSY-PCB,POWER

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA95-10007R	ASSY-PCB.POWER	CS7255PF.SCT52A.29".100-2	
IC803		1203-000640	IC-PWM CONTROLLER	210.DIP.8P.245MIL.PLASTIC	
R417		2008-000221	R-FUSIBLE	0.47OHM.10%.1/2W.AA.TP.4.	

ASSY-CRT

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
		AA03-10007J	CRT-COLOR	-.A70QAZ761X001.380MG.29"	BOLI
		AA03-10007J	CRT-COLOR	-.A70QAZ761X001.380MG.29"	EUROPATRAD

ASSY-PCB,CRT

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA95-20005U	ASSY-PCB.CRT	-.SCT52A.29".-.1"MORE	
CP501		AA39-20025E	LEAD-CONNECTOR.ASSY	-.67096-010.S.10P.400.100	
CP501		AA39-20025E	LEAD-CONNECTOR.ASSY	-.67096-010.S.10P.400.100	
IC501.2.3		1201-000539	IC-VIDEO AMP	6101.ZIP.9P.-.SINGLE.-.PL	

ASSY-PCB,TTX

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA95-90003Y	ASSY-PCB.TTX	-.CS7277PT/EUROX.SCT51A.P	
CT01		2305-000412	C-FILM.MPEF	470NF.5%.63V.-.5MM.TP	
CT06		2401-000302	C-AL	100UF.20%.25V.GP.6X11MM.5	
CT14		2201-000119	C-CERAMIC.DISC	100NF.+80-20%.50V.Y5V.8X5	
ICT01		1204-000536	IC-PAL DECODER	SAA5281P/H.DIP.48P.-.PLAS	
RT06		2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	

ASSY-POWER S/W

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA95-90010L	ASSY-POWER S/W	-.CS7255PF.SCT52A.PAL.-.-	
		AA96-30003A	ASSY-LED.GUIDE	-.AA61-50106A.DL-G8RGA.RE	

ASSY-PCB,A/V SWITCH

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA95-90010N	ASSY-PCB.A/V SWITCH	-.CS7255PF.SCT52A.CS.-.-	

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
RW701		2011-001058	R-NETWORK	75/75/1K/75OHM.5%.1/8W.X.	
RW702		2011-001059	R-NETWORK	33K/24/75/75/75OHM.5%.1/8	

ASSY-PCB,PIP

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA95-90010S	ASSY-PCB.PIP	-.CS7255PF.SCT52A.CS.-.-	
ICP105		1204-000635	IC-PICTURE PROCESS	SDA9189X.SOP.32P.350MIL.P	
RP134		2007-000872	R-CHIP	4.7KOHM.5%.1/10W.DA.TP.20	

ASSY-PCB,IF

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA95-90012Z	ASSY-PCB.IF	-.CS7255PF.SCT52A.W/O CZE	
Z112		2903-001019	FILTER-CERAMIC	TR.5.5/5.742MHZ	
ZN111		2903-001022	FILTER-CERAMIC	TR.4.5MHZ	

ASSY-PCB,A/V SIDE

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA95-90013E	ASSY-PCB.A/V SIDE	-.7255.SCT52A.PAL.-.SUPER	
		AA39-20009C	LEAD-CONNECTOR.ASSY	-.YFH800-01.-.1P.400.1015	

ASSY-ACCESSORY

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
		AA68-10854A	MANUAL-USERS	SCT52A.S/W 120(G).A4.POLA	SEPOL
		AA68-10845A	MANUAL-USERS	SCT52A.S/W 120(G).A4.ENGL	BOLI
		AA68-10855A	MANUAL-USERS	SCT52A.S/W 120(G).A4.CROA	EUROPATRAD

8-3 CS721APF Common

ASSY-PCB,MAIN(COMMON)

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
*		AA94-10082X	ASSY-PCB,MAIN(OPT)	CS721APTR/BWX,SCT52A,CIS	
C1001	31607-401-470	2401-000269	C-AL	100UF,20%,16V,GP,6X11MM,5	
C1002	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C1003	31607-402-470	2401-001570	C-AL	47UF,20%,50V,WT,10X20MM,5	
C1004	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C1005	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C1006	31607-401-470	2401-000269	C-AL	100UF,20%,16V,GP,6X11MM,5	
C1007	31607-402-240	2401-001271	C-AL	4.7UF,20%,50V,GP,5X11MM,5	
C1008	31417-109-140	2201-000982	C-CERAMIC,DISC	10NF,+80-20%,50V,Y5V,10X4	
C1009	31607-401-470	2401-000269	C-AL	100UF,20%,16V,GP,6X11MM,5	
C1015	31607-401-470	2401-000269	C-AL	100UF,20%,16V,GP,6X11MM,5	
C1016	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C200	31407-056-101	2201-000139	C-CERAMIC,DISC	100PF,2%,50V,NPO,-,5,TP	
C201	31607-401-470	2401-000269	C-AL	100UF,20%,16V,GP,6X11MM,5	
C202	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C203	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C204	A1102-0330	2309-000138	C-FILM,PE-PPF	100NF,5%,50V,16X7MM,7.5MM	
C205	31507-127-000	2301-000192	C-FILM,PEF	1NF,5%,50V,5.3X10MM,5MM,T	
C206	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C207	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C208	31507-127-003	2301-000232	C-FILM,PEF	3.3NF,5%,50V,8.1X4.5X13MM	
C209	31507-127-026	2305-000411	C-FILM,MPEF	470NF,5%,50V,7.3X4.8X5.5M	
C210	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C2101	31507-127-024	2305-000288	C-FILM,MPEF	220NF,5%,50V,7.3X4.8X5.5M	
C2102	31507-127-024	2305-000288	C-FILM,MPEF	220NF,5%,50V,7.3X4.8X5.5M	
C2103	31507-127-024	2305-000288	C-FILM,MPEF	220NF,5%,50V,7.3X4.8X5.5M	
C2104	31507-127-024	2305-000288	C-FILM,MPEF	220NF,5%,50V,7.3X4.8X5.5M	
C2105	31507-127-024	2305-000288	C-FILM,MPEF	220NF,5%,50V,7.3X4.8X5.5M	
C2106	31507-127-024	2305-000288	C-FILM,MPEF	220NF,5%,50V,7.3X4.8X5.5M	
C2107	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C2108	31607-401-470	2401-000269	C-AL	100UF,20%,16V,GP,6X11MM,5	
C2109*	A1100-0799	2202-000154	C-CERAMIC,MLC-AXIAL	150PF,10%,50V,Y5P,-,-,TP	
C211	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C212	31507-127-025	2305-000354	C-FILM,MPEF	330NF,5%,50V,7.3X4.8X5.5M	
C2120	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C2121	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C2122	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C2123	31607-401-470	2401-000269	C-AL	100UF,20%,16V,GP,6X11MM,5	
C213	31507-127-003	2301-000232	C-FILM,PEF	3.3NF,5%,50V,8.1X4.5X13MM	
C214	31507-137-016	2301-000223	C-FILM,PEF	22NF,5%,100V,7.2X4.5X9.0M	
C2140	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C2141	A1104-0052	2401-001937	C-AL	22UF,20%,16V,GP,5X5MM,5MM	
C2142	31407-057-241	2201-000395	C-CERAMIC,DISC	240PF,5%,50V,NPO,-,5MM,TP	
C215	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C216	31407-056-101	2201-000139	C-CERAMIC,DISC	100PF,2%,50V,NPO,-,5,TP	
C217	31407-106-250	2201-000472	C-CERAMIC,DISC	330PF,5%,50V,SL,8X3.5,5,T	
C218	31407-047-221	2201-000375	C-CERAMIC,DISC	220PF,5%,50V,RH,9.5X3.0,5	
C219	31507-127-025	2305-000354	C-FILM,MPEF	330NF,5%,50V,7.3X4.8X5.5M	
C220	31407-047-221	2201-000375	C-CERAMIC,DISC	220PF,5%,50V,RH,9.5X3.0,5	
C221	31407-056-101	2201-000139	C-CERAMIC,DISC	100PF,2%,50V,NPO,-,5,TP	

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C222	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C223	31607-401-470	2401-000269	C-AL	100UF,20%,16V,GP,6X11MM,5	
C224	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C225	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C226	31607-803-730	2401-001264	C-AL	4.7UF,20%,50V,BP,6X11MM,5	
C227	31607-803-730	2401-001264	C-AL	4.7UF,20%,50V,BP,6X11MM,5	
C228	31607-401-470	2401-000269	C-AL	100UF,20%,16V,GP,6X11MM,5	
C229	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C230	31507-127-024	2305-000288	C-FILM,MPEF	220NF,5%,50V,7.3X4.8X5.5M	
C231	31507-127-024	2305-000288	C-FILM,MPEF	220NF,5%,50V,7.3X4.8X5.5M	
C232	31507-127-024	2305-000288	C-FILM,MPEF	220NF,5%,50V,7.3X4.8X5.5M	
C233	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C234	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C235	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C236	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C237	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C238	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C239	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C240	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C241	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C242	31507-127-025	2305-000354	C-FILM,MPEF	330NF,5%,50V,7.3X4.8X5.5M	
C243	31607-402-210	2401-000603	C-AL	1UF,20%,50V,GP,5X11MM,5MM	
C244	A1104-0096	2401-000272	C-AL	100UF,20%,16V,GP,6.3X7MM,	
C245	31507-127-002	2301-000201	C-FILM,PEF	2.2NF,5%,50V,7.4X3.9X13MM	
C246*	31407-057-180	2201-000273	C-CERAMIC,DISC	18PF,5%,50V,NPO,5.0X3.0,2	
C247*	31607-402-210	2401-000603	C-AL	1UF,20%,50V,GP,5X11MM,5MM	
C248	31607-803-290	2401-000934	C-AL	22UF,20%,25V,BP,8X11.5,5M	
C249	A1102-0292	2305-000355	C-FILM,MPEF	330NF,5%,63V,-,5MM,TP	
C250	31507-127-006	2301-000380	C-FILM,PEF	10NF,5%,50V,6.5X3MM,5MM,T	
C251	31507-127-006	2301-000380	C-FILM,PEF	10NF,5%,50V,6.5X3MM,5MM,T	
C252	31507-127-006	2301-000380	C-FILM,PEF	10NF,5%,50V,6.5X3MM,5MM,T	
C253	31507-127-006	2301-000380	C-FILM,PEF	10NF,5%,50V,6.5X3MM,5MM,T	
C254	31607-401-460	2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
C255	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C256	31507-127-006	2301-000380	C-FILM,PEF	10NF,5%,50V,6.5X3MM,5MM,T	
C257	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C258	31507-127-006	2301-000380	C-FILM,PEF	10NF,5%,50V,6.5X3MM,5MM,T	
C259	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C260	31507-127-006	2301-000380	C-FILM,PEF	10NF,5%,50V,6.5X3MM,5MM,T	
C261	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C262	31507-127-006	2301-000380	C-FILM,PEF	10NF,5%,50V,6.5X3MM,5MM,T	
C265	31607-402-070	2401-000947	C-AL	22UF,20%,35V,GP,5X11MM,-,	
C266	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C268	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C269	31607-402-070	2401-000947	C-AL	22UF,20%,35V,GP,5X11MM,-,	
C270	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C271	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C274	31607-401-460	2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
C275	31507-127-006	2301-000380	C-FILM,PEF	10NF,5%,50V,6.5X3MM,5MM,T	
C277	A1102-0298	2305-000665	C-FILM,MPEF	100NF,5%,63V,7.5X4.0X5.0M	
C278	31607-401-460	2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
C279	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C280	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C281	31607-803-290	2401-000934	C-AL	22UF,20%,25V,BP,8X11.5,5M	
C282	31507-127-006	2301-000380	C-FILM,PEF	10NF,5%,50V,6.5X3MM,5MM,T	
C283	31407-047-221	2201-000375	C-CERAMIC,DISC	220PF,5%,50V,RH,9.5X3.0,5	
C284	31507-127-006	2301-000380	C-FILM,PEF	10NF,5%,50V,6.5X3MM,5MM,T	

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C285	31507-137-009	2301-000261	C-FILM.PEF	4.7NF.5%.100V.10.5X12.5X6	
C286	31507-127-006	2301-000380	C-FILM.PEF	10NF.5%.50V.6.5X3MM.5MM.T	
C287	31607-402-200	2401-001333	C-AL	0.47UF.20%.50V.GP.5X11.5.	
C288	31507-127-006	2301-000380	C-FILM.PEF	10NF.5%.50V.6.5X3MM.5MM.T	
C289	31407-047-221	2201-000375	C-CERAMIC.DISC	220PF.5%.50V.RH.9.5X3.0.5	
C290	31507-127-006	2301-000380	C-FILM.PEF	10NF.5%.50V.6.5X3MM.5MM.T	
C291	31507-127-006	2301-000380	C-FILM.PEF	10NF.5%.50V.6.5X3MM.5MM.T	
C292	31407-106-870	2201-000195	C-CERAMIC.DISC	10PF.0.5PF.50V.RH.-.5.TP	
C293	31407-106-870	2201-000195	C-CERAMIC.DISC	10PF.0.5PF.50V.RH.-.5.TP	
C294	31607-402-240	2401-001271	C-AL	4.7UF.20%.50V.GP.5X11MM.5	
C295	31507-127-006	2301-000380	C-FILM.PEF	10NF.5%.50V.6.5X3MM.5MM.T	
C296	31407-105-090	2201-000193	C-CERAMIC.DISC	10PF.0.3PF.50V.NPO.-.5.TP	
C297	B1102-0318	2306-000122	C-FILM.MPPF	100NF.5%.50V.7.3X4.0X5.0M	
C298	A1104-0525	2401-000142	C-AL	1000UF.20%.16V.WT.10X20MM	
C299	31407-056-101	2201-000139	C-CERAMIC.DISC	100PF.2%.50V.NPO.-.5.TP	
C601	31607-401-460	2401-001495	C-AL	47UF.20%.16V.GP.5X11MM.5M	
C602	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
C603	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
C604	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
C605	31607-401-670	2401-001530	C-AL	47UF.20%.25V.GP.5X11MM.5M	
C606	31507-127-000	2301-000192	C-FILM.PEF	1NF.5%.50V.5.3X10MM.5MM.T	
C607	31607-401-670	2401-001530	C-AL	47UF.20%.25V.GP.5X11MM.5M	
C608	31607-401-670	2401-001530	C-AL	47UF.20%.25V.GP.5X11MM.5M	
C609	31507-127-000	2301-000192	C-FILM.PEF	1NF.5%.50V.5.3X10MM.5MM.T	
C610	31607-402-210	2401-000603	C-AL	1UF.20%.50V.GP.5X11MM.5MM	
C611	31607-402-210	2401-000603	C-AL	1UF.20%.50V.GP.5X11MM.5MM	
C612	31607-401-670	2401-001530	C-AL	47UF.20%.25V.GP.5X11MM.5M	
C613	31607-401-430	2401-000440	C-AL	10UF.20%.25V.GP.5X11MM.5M	
C615	31607-402-710	2401-002458	C-AL	1000UF.20%.35V.GP.16X25MM	
C616	31507-127-024	2305-000288	C-FILM.MPEF	220NF.5%.50V.7.3X4.8X5.5M	
C617	A1104-0618	2401-000192	C-AL	1000UF.20%.50V.GP.16X25.7	
C618	31507-127-024	2305-000288	C-FILM.MPEF	220NF.5%.50V.7.3X4.8X5.5M	
C619	31607-402-710	2401-002458	C-AL	1000UF.20%.35V.GP.16X25MM	
C8001	31607-401-680	2401-000302	C-AL	100UF.20%.25V.GP.6X11MM.5	
C8002	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
C8003	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
C8004	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
C8005	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
C8006	31607-401-690	2401-000832	C-AL	220UF.20%.25V.GP.8X11MM.5	
C8007	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
C8008	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
C8009	31607-401-690	2401-000832	C-AL	220UF.20%.25V.GP.8X11MM.5	
C8010	31607-401-480	2401-000808	C-AL	220UF.20%.16V.GP.8X11MM.5	
C8011	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
C8012	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
C8013	A1104-0012	2401-001397	C-AL	470UF.20%.25V.GP.10X16MM.	
C8014	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
C8015	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
C8016	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
C8117	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
C8118	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
C901	A1104-0012	2401-001397	C-AL	470UF.20%.25V.GP.10X16MM.	
C902	31607-401-430	2401-000440	C-AL	10UF.20%.25V.GP.5X11MM.5M	
C903	A1100-0826	2201-000374	C-CERAMIC.DISC	220PF.5%.50V.NPO.-.5.TP	
C904	31607-401-480	2401-000808	C-AL	220UF.20%.16V.GP.8X11MM.5	
C909	31417-104-400	2201-000292	C-CERAMIC.DISC	1NF.10%.50V.Y5P.5X4.5MM.T	
C910	31417-104-400	2201-000292	C-CERAMIC.DISC	1NF.10%.50V.Y5P.5X4.5MM.T	

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C911	31407-057-151	2201-000245	C-CERAMIC.DISC	15PF.5%.50V.NPO.10X3.5.5.	
C912	31407-057-151	2201-000245	C-CERAMIC.DISC	15PF.5%.50V.NPO.10X3.5.5.	
C913	31407-057-270	2201-000423	C-CERAMIC.DISC	27PF.5%.50V.NPO.5.0X3.0.2	
C914	31407-057-270	2201-000423	C-CERAMIC.DISC	27PF.5%.50V.NPO.5.0X3.0.2	
C917	31407-105-280	2201-000611	C-CERAMIC.DISC	56PF.5%.50V.NPO.6.3X3.5.T	
C918	31607-401-480	2401-000808	C-AL	220UF.20%.16V.GP.8X11MM.5	
C919	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
C920	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
C921	31417-109-140	2201-000982	C-CERAMIC.DISC	10NF.+80-20%.50V.Y5V.10X4	
C922	31607-402-250	2401-000480	C-AL	10UF.20%.50V.GP.5X11MM.5M	
C923	31407-101-360	2201-000146	C-CERAMIC.DISC	100PF.5%.50V.SL.5X3.5.5.T	
C926	31507-127-016	2301-000264	C-FILM.PEF	4.7NF.5%.50V.6.5X5.5X3.0X	
C927	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
C928	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
CC01	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CC02	31607-401-450	2401-002462	C-AL	33UF.20%.16V.GP.5X11.5.TP	
CC03	31607-401-450	2401-002462	C-AL	33UF.20%.16V.GP.5X11.5.TP	
CC04	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
CC05	31607-402-240	2401-001271	C-AL	4.7UF.20%.50V.GP.5X11MM.5	
CC06	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CC07	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
CC10	31607-402-240	2401-001271	C-AL	4.7UF.20%.50V.GP.5X11MM.5	
CC11	31607-402-240	2401-001271	C-AL	4.7UF.20%.50V.GP.5X11MM.5	
CC12	31607-401-430	2401-000440	C-AL	10UF.20%.25V.GP.5X11MM.5M	
CF01	37169-0002-000	AA29-100018	FILTER-COMB	-.CFM102.NTSC.-	
CN1001	33347-108-180	3711-002644	CONNECTOR-HEADER	BOX.5P.1R.2.5MM.STRAIGHT.	
CN701		3710-001051	CONNECTOR-SOCKET	20P.2R.2.54MM.STRAIGHT.SN	
CN702		3710-001051	CONNECTOR-SOCKET	20P.2R.2.54MM.STRAIGHT.SN	
CN703	33347-110-110	3711-002648	CONNECTOR-HEADER	BOX.9P.1R.2.5MM.STRAIGHT.	
CN903	33347-108-180	3711-002644	CONNECTOR-HEADER	BOX.5P.1R.2.5MM.STRAIGHT.	
CN803	33058-103-120	3711-000406	CONNECTOR-HEADER	3WALL.12P.1R.2.5MM.STRAIG	
CN804	33058-103-120	3711-000406	CONNECTOR-HEADER	3WALL.12P.1R.2.5MM.STRAIG	
CN805	33347-108-110	3711-002646	CONNECTOR-HEADER	BOX.7P.1R.2.5MM.STRAIGHT.	
CN812	33347-110-110	3711-002648	CONNECTOR-HEADER	BOX.9P.1R.2.5MM.STRAIGHT.	
CP101	31607-402-470	2401-001570	C-AL	47UF.20%.50V.WT.10X20MM.5	
CP1010	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CP1011	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
CP102	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
CP103	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CP104	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
CP105	31607-402-250	2401-000480	C-AL	10UF.20%.50V.GP.5X11MM.5M	
CP106	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CP107	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
CP108	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CP109	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
CPV01	33345-110-310	3711-000661	CONNECTOR-HEADER	BOX.12P.1R.2.5MM.STRAIGHT	
CT01	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CT02	A1102-0298	2305-000665	C-FILM.MPEF	100NF.5%.63V.7.5X4.0X5.0M	
CW901	A1113-0015	2503-000158	C-NETWORK	330PFX4.20%.50V	
CW902	A1113-0014	2503-000159	C-NETWORK	330PFX5.20%.50V	
CW903	A1113-0013	2503-000161	C-NETWORK	330PFX8.20%.50V	
CW904	A1113-0015	2503-000158	C-NETWORK	330PFX4.20%.50V	
D/COIL	A1149-0032	AA27-200020	COIL-DEGAUSSING	-.29".14OHM.70T.L3300.E	
D203	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D204	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D205	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D206	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
D211	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D212	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D213	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D214	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D215	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D216	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D217	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D218	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D219	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D601	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D602	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D603	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D604	32167-201-070	0402-000129	DIODE-RECTIFIER	1N4003.200V.1A.DO-41	
D605	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D606	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D607	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D608	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D609	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D610*	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D905	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D906	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D907	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D908	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D909	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D910	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D911	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D912	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D913	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
DL201	A1146-0040	4711-000205	DELAY LINE	0.140US.-.-.TR	
DZ101	32119-101-360	1203-000451	IC-VOLTAGE REGULATOR	33.TO-92.3P.-.PLASTIC.31/	
DZ201	32167-406-130	0403-000563	DIODE-ZENER	MTZ9.1B.9.1V.8.57-9.01V.5	
DZ202	32167-406-260	0403-000668	DIODE-ZENER	MTZ8.2B.8.2V.7.78-8.19V.5	
DZ203	32167-406-080	0403-000295	DIODE-ZENER	MTZ5.1B.5.1V.4.94-5.20V.5	
DZ204	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ206	32167-406-130	0403-000563	DIODE-ZENER	MTZ9.1B.9.1V.8.57-9.01V.5	
DZ207	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ208	32167-441-009	0403-000299	DIODE-ZENER	MTZ7.5C.7.5V.7.29-7.67V.5	
DZ601	A4106-0227	0403-000700	DIODE-ZENER	TZP33A.33V.31-35V.1W.DO-4	
DZ901	32167-401-800	0403-000296	DIODE-ZENER	MTZ5.6B.5.6V.5.45-5.73V.5	
DZ902	32167-401-800	0403-000296	DIODE-ZENER	MTZ5.6B.5.6V.5.45-5.73V.5	
DZC01	32167-406-130	0403-000563	DIODE-ZENER	MTZ9.1B.9.1V.8.57-9.01V.5	
GT102	33054-834-020	AA39-20010E	LEAD-CONNECTOR.ASSY	-.YFH800-01.S.1P.800.1617	
IC201	B4012-0520	1204-000548	IC-PICTURE PROCESSOR	TDA4566.DIP.18P.300MIL.PL	
IC202	B4012-0490	1204-000520	IC-CHROMA	TDA9162.DIP.32P.400MIL.PL	
IC203	B4012-0489	1204-000464	IC-VIDEO PROCESS	TDA4780.DIP.28P.-.PLASTIC	
IC204	B4012-0361	1209-000214	IC-DELAY LINE	TDA4665.DIP.16P.300MIL.PL	
IC205	B4012-0464	1204-000444	IC-PICTURE PROCESS	TDA9170.DIP.32P.-.PLASTIC	
IC206	B4008-0936	1201-000501	IC-VIDEO AMP	14577.DIP.8P.300MIL.CMOS.	
IC207	B4012-0466	1204-000471	IC-PICTURE PROCESS	AN5342K.DIP.30P.400MIL.PL	
IC208	32119-110-210	1001-000223	IC-VIDEO SWITCH	TEA5114A.-.DIP.16P.334MIL	
IC209	B4008-0936	1201-000501	IC-VIDEO AMP	14577.DIP.8P.300MIL.CMOS.	
⚠ IC601	B4012-0282	1201-000341	IC-POWER AMP	8216.SIP.12P.-.DUAL.-.PLA	
⚠ IC8001	A4008-1099	1203-000293	IC-POSI.FIXED REG.	7808.TO-220.3P.-.PLASTIC.	
⚠ IC8002	A4008-1092	1203-000274	IC-POSI.FIXED REG.	7805.TO-220.3P.-.PLASTIC.	
⚠ IC8003	A4008-1140	1203-000165	IC-POSI.ADJUST REG.	78R12.TO-220.3P.-.-.12V.-	
⚠ IC8004	A4008-0520	1203-000298	IC-POSI.FIXED REG.	7809.TO-220.3P.-.PLASTIC.	
⚠ IC8005	A4008-1140	1203-000165	IC-POSI.ADJUST REG.	78R12.TO-220.3P.-.-.12V.-	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
IC901	B4002-0836	AA13-30005F	IC-MCU	-.CXP854P60S-1.8BIT.SDIP.	
IC902	B4000-0118	1103-000118	IC-EEPROM	CAT24C08P.1KX8BIT.DIP.8P.	
IC903	32107-310-110	1203-000569	IC-VOL. DETECTO	R:7042.TOS-92.39.177MIL.PL	
ICC01	B4004-0149	0801-000961	IC-CMOS LOGIC	4053B.MUTIPLEXER.DIP.16P.	
L1001	32427-904-918	2701-000142	INDUCTOR-AXIAL	1UH.10%.2.5X3.4MM	
L1002	32427-904-918	2701-000142	INDUCTOR-AXIAL	1UH.10%.2.5X3.4MM	
L1003	32427-904-918	2701-000142	INDUCTOR-AXIAL	1UH.10%.2.5X3.4MM	
L1004	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
L1005	34047-019-060	3301-000287	CORE-FERRITE BEAD	AA.3.5X1.0X6.0MM.1500.240	
L101	32427-805-852	2701-000112	INDUCTOR-AXIAL	100UH.10%.2.8X7MM	
L202	32427-805-840	2701-000115	INDUCTOR-AXIAL	10UH.10%.2.8X7MM	
L203	32427-805-840	2701-000115	INDUCTOR-AXIAL	10UH.10%.2.8X7MM	
L204	32427-904-927	2701-000162	INDUCTOR-AXIAL	27UH.10%.2.5X3.4MM	
L205	A1132-0048	2701-000223	INDUCTOR-AXIAL	82UH.10%.2.5X3.4MM	
L206	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
L207	A1132-0060	2701-000207	INDUCTOR-AXIAL	56UH.5%.2.5X3.4MM	
L208	32427-904-918	2701-000142	INDUCTOR-AXIAL	1UH.10%.2.5X3.4MM	
L209	32427-904-927	2701-000162	INDUCTOR-AXIAL	27UH.10%.2.5X3.4MM	
L602	32427-904-918	2701-000142	INDUCTOR-AXIAL	1UH.10%.2.5X3.4MM	
L603	32427-904-918	2701-000142	INDUCTOR-AXIAL	1UH.10%.2.5X3.4MM	
L604	32427-805-840	2701-000115	INDUCTOR-AXIAL	10UH.10%.2.8X7MM	
L902	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
L903	32427-805-818	AA27-10003G	COIL-CHOKE	-.30UH.K.50.22.3MA.TP.ELO	
L904	32427-805-840	2701-000115	INDUCTOR-AXIAL	10UH.10%.2.8X7MM	
L905	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
LP101	32427-904-918	2701-000142	INDUCTOR-AXIAL	1UH.10%.2.5X3.4MM	
LP102	32427-805-840	2701-000115	INDUCTOR-AXIAL	10UH.10%.2.8X7MM	
LP103	32427-904-918	2701-000142	INDUCTOR-AXIAL	1UH.10%.2.5X3.4MM	
LP104	32427-904-918	2701-000142	INDUCTOR-AXIAL	1UH.10%.2.5X3.4MM	
LP105	32427-904-918	2701-000142	INDUCTOR-AXIAL	1UH.10%.2.5X3.4MM	
LP106	32427-904-918	2701-000142	INDUCTOR-AXIAL	1UH.10%.2.5X3.4MM	
LP108	32427-805-852	2701-000112	INDUCTOR-AXIAL	100UH.10%.2.8X7MM	
⚠ M101	A1294-0054	AA59-40001R	MODULE-LNA	-.LNA1410AC.PAL.EUROPE.29	
Q1001	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q201	32137-401-530	0501-000283	TR-SMALL SIGNAL	KSA539-Y.PNP.-60V.-45V.-2	
Q202	32137-401-530	0501-000283	TR-SMALL SIGNAL	KSA539-Y.PNP.-60V.-45V.-2	
Q203	32137-401-530	0501-000283	TR-SMALL SIGNAL	KSA539-Y.PNP.-60V.-45V.-2	
Q204	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q205	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q206	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q207	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q208	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q209	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q210	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q211	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q212	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q213	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q214	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q215	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q216	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q217	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q601	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q602	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q603	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q604	32137-401-530	0501-000283	TR-SMALL SIGNAL	KSA539-Y.PNP.-60V.-45V.-2	
Q901	32137-301-560	0501-000369	TR-SMALL SIGNAL	KSC2331-Y.NPN.80V.60V.700	
Q903	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
Q904	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
Q905	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
Q906	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
Q907	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
Q908	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
Q909	32137-401-530	0501-000283	TR-SMALL SIGNAL	KSA539-Y,PNP,-60V,-45V,-2	
Q910	32137-401-530	0501-000283	TR-SMALL SIGNAL	KSA539-Y,PNP,-60V,-45V,-2	
QC01	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
QC02	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
QC03	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
QC04	32137-401-530	0501-000283	TR-SMALL SIGNAL	KSA539-Y,PNP,-60V,-45V,-2	
QC05	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
QC06	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
QC07	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
R1002	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R1003	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R1004	31018-177-562	2004-001027	R-METAL	5.6KOHM,5%,1/8W,AA,TP,1.8	
R1005	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R1006	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R1007	31018-177-561	2001-000857	R-CARBON	560OHM,5%,1/8W,AA,TP,1.8X	
R1245		2004-000195	R-METAL	100KOHM,1%,1/8W,AA,TP,1.8	
R201	31018-177-153	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X	
R202	31018-177-912	2004-001995	R-METAL	9.1KOHM,5%,1/8W,AA,TP,1.8	
R203	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R204	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R205	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R206	31018-177-104	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8	
R207	31018-177-684	2004-001185	R-METAL	680KOHM,5%,1/8W,AA,TP,1.8	
R208	31018-177-563	2004-001104	R-METAL	56KOHM,5%,1/8W,AA,TP,1.8X	
R209	31018-177-334	2001-000645	R-CARBON	330KOHM,5%,1/8W,AA,TP,1.8	
R210	31018-177-273	2001-000563	R-CARBON	27KOHM,5%,1/8W,AA,TP,1.8X	
R2100	31018-177-203	2001-000009	R-CARBON	20KOHM,5%,1/8W,AA,TP,1.8X	
R2101	31018-177-511	2001-000832	R-CARBON	510OHM,5%,1/8W,AA,TP,1.8X	
R2103	31018-177-392	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8	
R2105	31018-177-182	2001-000258	R-CARBON	1.8KOHM,5%,1/8W,AA,TP,1.8	
R2106	31018-177-153	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X	
R2107	31018-177-333	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X	
R2108	31018-177-150	2001-000376	R-CARBON	15OHM,5%,1/8W,AA,TP,1.8X3	
R2109	31018-177-511	2001-000832	R-CARBON	510OHM,5%,1/8W,AA,TP,1.8X	
⚠ R211	31048-163-902	2004-001914	R-METAL	39KOHM,2%,1/8W,AA,TP,1.8X	
R2110	31018-177-150	2001-000376	R-CARBON	15OHM,5%,1/8W,AA,TP,1.8X3	
R2111	31018-177-511	2001-000832	R-CARBON	510OHM,5%,1/8W,AA,TP,1.8X	
R2112	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R2113	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R2114	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R2115	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R2118	31018-177-181	2001-000405	R-CARBON	180OHM,5%,1/8W,AA,TP,1.8X	
R2119	31018-177-181	2001-000405	R-CARBON	180OHM,5%,1/8W,AA,TP,1.8X	
R212	31018-177-822	2004-001258	R-METAL	8.2KOHM,5%,1/8W,AA,TP,1.8	
R2120	31018-177-181	2001-000405	R-CARBON	180OHM,5%,1/8W,AA,TP,1.8X	
R2121	31018-177-181	2001-000405	R-CARBON	180OHM,5%,1/8W,AA,TP,1.8X	
R2122	A1000-0554	2004-000971	R-METAL	470OHM,1%,1/8W,AA,TP,1.8X	
R2123	A1000-0554	2004-000971	R-METAL	470OHM,1%,1/8W,AA,TP,1.8X	
R2124	A1000-0554	2004-000971	R-METAL	470OHM,1%,1/8W,AA,TP,1.8X	
R2127	31018-177-221	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X	
R2129	31018-177-221	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X	
R213	31018-177-153	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
R2131	31018-177-221	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X	
R2133	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R2134	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R2135	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R2136	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R2137		2004-004046	R-METAL(S)	430KOHM,1%,1/2W,AA,TP,2.5	
⚠ R2138	31049-375-913	2004-001408	R-METAL(S)	91KOHM,1%,1/2W,AA,TP,2.4X	
R2139	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R214	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R2140		2004-004045	R-METAL(S)	390OHM,1%,1/2W,AA,TP,2.5X	
⚠ R2141	31048-375-513	2004-002022	R-METAL(S)	51KOHM,1%,1/2W,AA,TP,2.4X	
R2142	A1006-0833	2004-001984	R-METAL	26.7KOHM,1%,1/2W,AA,TP,2.	
⚠ R2143	31048-175-102	2004-000433	R-METAL	1KOHM,1%,1/8W,AA,TP,1.8X3	
R2146	31018-377-103	2001-000066	R-CARBON(S)	10KOHM,5%,1/2W,AA,TP,2.4X	
R2147	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R2148		2004-004046	R-METAL(S)	430KOHM,1%,1/2W,AA,TP,2.5	
R215	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R2150	31018-177-333	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X	
R2151	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R2152	31018-177-222	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8	
R2153	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R2154	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R2155	31018-177-333	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X	
R2156	31018-177-222	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8	
R2157	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R2158	31018-177-222	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8	
R217	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R219	31018-177-823	2004-001301	R-METAL	82KOHM,5%,1/8W,AA,TP,1.8X	
R220	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R221	31018-177-152	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8	
R222	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R223	31018-177-223	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X	
R224	A1006-0845	2004-001987	R-METAL	4.3KOHM,1%,1/2W,AA,TP,2.4	
R225	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R226	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R227	31057-327-150	2008-000260	R-FUSIBLE	150OHM,5%,1/2W,AA,TP,4.7X	
R228	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R229	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R230	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R231	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R232	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R233	31018-177-334	2001-000645	R-CARBON	330KOHM,5%,1/8W,AA,TP,1.8	
R234	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R235*	31018-177-203	2001-000009	R-CARBON	20KOHM,5%,1/8W,AA,TP,1.8X	
R236	31018-177-561	2001-000857	R-CARBON	560OHM,5%,1/8W,AA,TP,1.8X	
R237	31018-177-333	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X	
R238	31018-177-333	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X	
R239	31018-177-471	2001-000780	R-CARBON	470OHM,5%,1/8W,AA,TP,1.8X	
R240	31018-177-682	2004-001140	R-METAL	6.8KOHM,5%,1/8W,AA,TP,1.8	
R241	31018-177-562	2004-001027	R-METAL	5.6KOHM,5%,1/8W,AA,TP,1.8	
R242	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R243	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R244	31018-177-221	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X	
R245	31018-177-221	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X	
R247	A1006-0669	2004-001403	R-METAL(S)	7.5KOHM,1%,1/2W,AA,TP,2.4	
R248	31018-177-223	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X	
R249	31018-177-471	2001-000780	R-CARBON	470OHM,5%,1/8W,AA,TP,1.8X	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
R250	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R251	31018-177-511	2001-000832	R-CARBON	510OHM,5%,1/8W,AA,TP,1.8X	
R252	31018-177-272	2001-000472	R-CARBON	2.7KOHM,5%,1/8W,AA,TP,1.8	
R253	31018-177-561	2001-000857	R-CARBON	560OHM,5%,1/8W,AA,TP,1.8X	
R254	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R255	31018-177-303	2001-000633	R-CARBON	30KOHM,5%,1/8W,AA,TP,1.8X	
R256	31018-177-223	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X	
R257	31018-177-153	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X	
R258	31018-177-822	2004-001258	R-METAL	8.2KOHM,5%,1/8W,AA,TP,1.8	
R259	31018-177-512	2001-000800	R-CARBON	5.1KOHM,5%,1/8W,AA,TP,1.8	
R260	31018-177-432	2001-000723	R-CARBON	4.3KOHM,5%,1/8W,AA,TP,1.8	
R261	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R262	31018-177-223	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X	
R264	31018-177-122	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8	
R265	31018-177-100	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3	
R266	31018-177-303	2001-000633	R-CARBON	30KOHM,5%,1/8W,AA,TP,1.8X	
R267	31018-177-153	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X	
R268	31018-177-561	2001-000857	R-CARBON	560OHM,5%,1/8W,AA,TP,1.8X	
R269	31018-177-333	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X	
R270	31018-177-393	2001-000702	R-CARBON	39KOHM,5%,1/8W,AA,TP,1.8X	
R271	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R272	31018-177-362	2001-000605	R-CARBON	3.6KOHM,5%,1/8W,AA,TP,1.8	
R273	31018-177-392	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8	
R274	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R275	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R276	31018-177-823	2004-001301	R-METAL	82KOHM,5%,1/8W,AA,TP,1.8X	
R277	31018-177-564	2004-001089	R-METAL	560KOHM,5%,1/8W,AA,TP,1.8	
R278	31018-177-682	2004-001140	R-METAL	6.8KOHM,5%,1/8W,AA,TP,1.8	
R279	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R280		2004-000900	R-METAL	4.7KOHM,1%,1/8W,AA,TP,1.8	
R281	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R282	31018-177-133	2001-000347	R-CARBON	13KOHM,5%,1/8W,AA,TP,1.8X	
R284	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R285	31018-177-681	2004-001193	R-METAL	680OHM,5%,1/8W,AA,TP,1.8X	
R286	31018-177-332	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8	
R287	31018-177-561	2001-000857	R-CARBON	560OHM,5%,1/8W,AA,TP,1.8X	
R288	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R289	31018-177-271	2001-000554	R-CARBON	270OHM,5%,1/8W,AA,TP,1.8X	
R290	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R291	31018-177-100	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3	
R292	31018-177-151	2001-000362	R-CARBON	150OHM,5%,1/8W,AA,TP,1.8X	
R293	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R294	A1010-0086	2008-000272	R-FUSIBLE	33OHM,5%,1/2W,AA,TP,2.5X6	
R295	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R296	31018-377-472	2001-001144	R-CARBON(S)	4.7KOHM,5%,1/2W,AA,TP,2.4	
R297	31018-177-912	2004-001995	R-METAL	9.1KOHM,5%,1/8W,AA,TP,1.8	
R298	31018-177-562	2004-001027	R-METAL	5.6KOHM,5%,1/8W,AA,TP,1.8	
R299	31018-177-302	2001-000007	R-CARBON	3KOHM,5%,1/8W,AA,TP,1.8X3	
R601	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R602	31018-177-393	2001-000702	R-CARBON	39KOHM,5%,1/8W,AA,TP,1.8X	
R603	31018-177-680	2004-001205	R-METAL	68OHM,5%,1/8W,AA,TP,1.8X3	
R604	31018-177-303	2001-000633	R-CARBON	30KOHM,5%,1/8W,AA,TP,1.8X	
R605	31018-177-303	2001-000633	R-CARBON	30KOHM,5%,1/8W,AA,TP,1.8X	
R606	31018-177-680	2004-001205	R-METAL	68OHM,5%,1/8W,AA,TP,1.8X3	
R607	31018-177-393	2001-000702	R-CARBON	39KOHM,5%,1/8W,AA,TP,1.8X	
R608	31018-177-563	2004-001104	R-METAL	56KOHM,5%,1/8W,AA,TP,1.8X	
R609	31018-177-223	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
R610	31018-177-154	2001-000356	R-CARBON	150KOHM,5%,1/8W,AA,TP,1.8	
R611	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R612	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R613	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R614	31018-377-229	2001-001096	R-CARBON(S)	2.2OHM,5%,1/2W,AA,TP,2.4X	
R615	31018-377-229	2001-001096	R-CARBON(S)	2.2OHM,5%,1/2W,AA,TP,2.4X	
R617	31018-177-223	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X	
R8001	31018-377-103	2001-000066	R-CARBON(S)	10KOHM,5%,1/2W,AA,TP,2.4X	
R8002	B1010-0025	2008-000190	R-FUSIBLE(S)	1.2OHM,5%,2W,AA,TP,3.9X10	
⚠ R8003	31046-567-220	2003-000590	R-METAL OXIDE(S)	22OHM,5%,2W,AA,TP,4X12MM	
⚠ R8004	31046-567-101	2003-000455	R-METAL OXIDE(S)	100OHM,5%,2W,AA,TP,4X12MM	
R8005	31018-377-103	2001-000066	R-CARBON(S)	10KOHM,5%,1/2W,AA,TP,2.4X	
R902	31018-177-122	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8	
R903	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R904	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R905	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R906	A1000-0390	2001-001093	R-CARBON(S)	2.2KOHM,5%,1/2W,AA,TP,2.4	
R907	A1000-0390	2001-001093	R-CARBON(S)	2.2KOHM,5%,1/2W,AA,TP,2.4	
R908	A1000-0390	2001-001093	R-CARBON(S)	2.2KOHM,5%,1/2W,AA,TP,2.4	
R909	A1000-0390	2001-001093	R-CARBON(S)	2.2KOHM,5%,1/2W,AA,TP,2.4	
R910	31018-177-333	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X	
R911	31018-177-333	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X	
R912	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R913	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R914	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R915	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R916	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R917	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R918	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R919	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R920	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R921	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R922	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R924	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R925	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R926	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R927	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R928	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R929	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R930	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R931	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R932	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R933	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R934	31018-177-152	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8	
R935	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R936	31018-177-752	2004-001213	R-METAL	7.5KOHM,5%,1/8W,AA,TP,1.8	
R937	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R938	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R939	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R940	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R941	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R942	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R943	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R944	31018-177-222	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8	
R945	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R946	31018-177-222	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8	
R947	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
R950	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R951	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R952	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R953	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R954	31018-177-123	2001-000331	R-CARBON	12KOHM.5%.1/8W.AA.TP.1.8X	
R955	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
R956	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R957	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R959	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R960	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
R961	31018-177-271	2001-000554	R-CARBON	270OHM.5%.1/8W.AA.TP.1.8X	
R962	31018-177-513	2001-000837	R-CARBON	51KOHM.5%.1/8W.AA.TP.1.8X	
R963	31018-177-513	2001-000837	R-CARBON	51KOHM.5%.1/8W.AA.TP.1.8X	
R965	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R966	31018-177-472	2001-000734	R-CARBON	4.7KOHM.5%.1/8W.AA.TP.1.8	
R968	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R969	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R970	31018-177-121	2001-000325	R-CARBON	120OHM.5%.1/8W.AA.TP.1.8X	
R971	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R972	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R973	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R974	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R975	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R976	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R977	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R978	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R979	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R980	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R981	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R982	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R985	31018-177-472	2001-000734	R-CARBON	4.7KOHM.5%.1/8W.AA.TP.1.8	
R986	31018-177-472	2001-000734	R-CARBON	4.7KOHM.5%.1/8W.AA.TP.1.8	
R987	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R988	31018-177-221	2001-000515	R-CARBON	220OHM.5%.1/8W.AA.TP.1.8X	
R989	31018-177-221	2001-000515	R-CARBON	220OHM.5%.1/8W.AA.TP.1.8X	
R990	31018-177-221	2001-000515	R-CARBON	220OHM.5%.1/8W.AA.TP.1.8X	
R991•	31018-177-182	2001-000258	R-CARBON	1.8KOHM.5%.1/8W.AA.TP.1.8	OSD
R992	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R993	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R994	31018-177-223	2001-000522	R-CARBON	22KOHM.5%.1/8W.AA.TP.1.8X	
R995	A1010-0069	2008-000267	R-FUSIBLE(S)	2.4OHM.5%.2W.AA.TP.3.9X10	
RC01		2008-001026	R-FUSIBLE	75OHM.5%.1/2W.AA.TP.4.7X1	
RC02	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
RC03	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
RC04	31018-177-471	2001-000780	R-CARBON	470OHM.5%.1/8W.AA.TP.1.8X	
RC05	31018-177-562	2004-001027	R-METAL	5.6KOHM.5%.1/8W.AA.TP.1.8	
RC06	31018-177-562	2004-001027	R-METAL	5.6KOHM.5%.1/8W.AA.TP.1.8	
RC07	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
RC08	31018-177-471	2001-000780	R-CARBON	470OHM.5%.1/8W.AA.TP.1.8X	
RC09	31018-177-181	2001-000405	R-CARBON	180OHM.5%.1/8W.AA.TP.1.8X	
RC10	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
RC11	31018-177-150	2001-000376	R-CARBON	15OHM.5%.1/8W.AA.TP.1.8X3	
RC12	31018-177-151	2001-000362	R-CARBON	150OHM.5%.1/8W.AA.TP.1.8X	
RC13	31018-177-750	2004-001240	R-METAL	75OHM.5%.1/8W.AA.TP.1.8X3	
RC14	31018-177-750	2004-001240	R-METAL	75OHM.5%.1/8W.AA.TP.1.8X3	
RC15	31018-177-750	2004-001240	R-METAL	75OHM.5%.1/8W.AA.TP.1.8X3	
RC16	31018-177-750	2004-001240	R-METAL	75OHM.5%.1/8W.AA.TP.1.8X3	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
RC17	31018-177-513	2001-000837	R-CARBON	51KOHM.5%.1/8W.AA.TP.1.8X	
RC18	31018-177-513	2001-000837	R-CARBON	51KOHM.5%.1/8W.AA.TP.1.8X	
RC19	31018-177-513	2001-000837	R-CARBON	51KOHM.5%.1/8W.AA.TP.1.8X	
RC20	31018-177-513	2001-000837	R-CARBON	51KOHM.5%.1/8W.AA.TP.1.8X	
RC21	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
RC22	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
RC23	31018-177-333	2001-000660	R-CARBON	33KOHM.5%.1/8W.AA.TP.1.8X	
RP102	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
RP103	31018-177-472	2001-000734	R-CARBON	4.7KOHM.5%.1/8W.AA.TP.1.8	
RP104	31018-177-472	2001-000734	R-CARBON	4.7KOHM.5%.1/8W.AA.TP.1.8	
RT101	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
RT102	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
SPK	36434-0061-000	AA39-20105A	LEAD-CONNECTOR.ASSY	-.YSH025-04.SMP025-04.4P.	
⚠ TU101	A1292-0081	AA40-10002N	TUNER-F/S	-.TECC0889PA19C.PAL-MULTI	
⚠ TUP01	A1292-0081	AA40-10002N	TUNER-F/S	-.TECC0889PA19C.PAL-MULTI	
X201	B1280-0089	2801-000235	CRYSTAL-UNIT	3.579545MHZ.40PPM.28-AAM.	
X202	B1280-0196	2801-000274	CRYSTAL-UNIT	4.433619MHZ.30PPM.28-AAM.	
X901	34537-071-010	2801-001480	CRYSTAL-UNIT	4.194304MHZ.20PPM.28-ABO.	

ASSY-PCB,POWER

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA95-10007R	ASSY-PCB.POWER	CS7255PF.SCT52A.29".100-2	
C301	31417-106-130	2201-000291	C-CERAMIC.DISC	1NF.10%.500V.Y5P.8.5X5MM.	
C302	A1102-0302	2305-000149	C-FILM.MPEF	100NF.5%.100V.7.5X4.0X5.0	
C303	31607-402-210	2401-000603	C-AL	1UF.20%.50V.GP.5X11MM.5MM	
C304	31607-402-100	2401-000326	C-AL	100UF.20%.35V.GP.8X11MM.5	
C305	31607-402-100	2401-000326	C-AL	100UF.20%.35V.GP.8X11MM.5	
C306	A1100-0830	2201-002022	C-CERAMIC.DISC	5PF.0.25PF.500V.NPO.5X3.5	
⚠ C307	31509-121-300	2301-000212	C-FILM.PEF	220NF.5%.100V.16.0X10.0X2	
⚠ C308	31509-335-170	2303-000191	C-FILM.PPF	270NF.5%.200V.30.5X19.5X1	
C401	31507-137-012	2301-000313	C-FILM.PEF	8.2NF.5%.100V.7X3.2X7MM.5	
C402	31607-401-680	2401-000302	C-AL	100UF.20%.25V.GP.6X11MM.5	
⚠ C403	31519-400-006	2306-000178	C-FILM.MPPF	3.9NF.5%.1.6KV.31X15X8.5.	
⚠ C405	31509-391-050	2303-000118	C-FILM.PPF	10NF.5%.1.6KV.31X19.5X13.	
C406	A1102-0326	2306-000226	C-FILM.MPPF	47NF.5%.630V.19X15.5X7.15	
⚠ C407	31519-002-020	2306-000272	C-FILM.MPPF	820NF.5%.400V.-.22.5MM.BK	
C408	31417-106-130	2201-000291	C-CERAMIC.DISC	1NF.10%.500V.Y5P.8.5X5MM.	
C409	31607-402-110	2401-002461	C-AL	220UF.20%.35V.GP.10X12.5.	
C410	31407-105-260	2201-000573	C-CERAMIC.DISC	47PF.5%.50V.NPO.6.5X3.0.5	
C411	A1102-0300	2305-000470	C-FILM.MPEF	68NF.5%.100V.-.5MM.TP	
C412	A1102-0324	2305-000407	C-FILM.MPEF	470NF.5%.100V.-.5MM.TP	
C413	A1102-0212	2306-000322	C-FILM.MPPF	12NF.5%.1.6KV.28.5X20.5X1	
C414		2303-001017	C-FILM.PPF	12NF.5%.2KV.29X16X24.20MM	
C415	31417-106-090	2201-000556	C-CERAMIC.DISC	470PF.10%.500V.Y5P.6X3.5.	
C416	31607-403-980	2401-001563	C-AL	47UF.20%.400V.GP.16X25.7.	
C417	31417-106-090	2201-000556	C-CERAMIC.DISC	470PF.10%.500V.Y5P.6X3.5.	
C418	A1104-0012	2401-001397	C-AL	470UF.20%.25V.GP.10X16MM.	
C419	31417-106-090	2201-000556	C-CERAMIC.DISC	470PF.10%.500V.Y5P.6X3.5.	
C420	A1104-0012	2401-001397	C-AL	470UF.20%.25V.GP.10X16MM.	
C421	31417-106-090	2201-000556	C-CERAMIC.DISC	470PF.10%.500V.Y5P.6X3.5.	
C422	A1104-0012	2401-001397	C-AL	470UF.20%.25V.GP.10X16MM.	
⚠ C423	31517-002-224	2301-000213	C-FILM.PEF	220NF.5%.250V.21.5X11.7.5	
C430		2401-003114	C-AL	4.7UF.20%.250V.WT.10X16MM	
⚠ C431	31519-002-020	2306-000272	C-FILM.MPPF	820NF.5%.400V.-.22.5MM.BK	
C801	A1102-0316	2306-000159	C-FILM.MPPF	220NF.20%.250V.-.22.5MM.T	
C802	A1102-0316	2306-000159	C-FILM.MPPF	220NF.20%.250V.-.22.5MM.T	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C803	31467-502-220	2201-000315	C-CERAMIC,DISC	2.2NF,+80-20%,250V,Y5U,-,	
C804		2401-003065	C-AL	470UF,20%,50V,LZ,13X25,5M	
C805	31417-104-400	2201-000292	C-CERAMIC,DISC	1NF,10%,50V,Y5P,5X4,5MM,T	
C806	A1102-0198	2306-000323	C-FILM,MPPF	2.2NF,5%,1.6KV,28.5X15.5X	
C807	A1102-0314	2306-000112	C-FILM,MPPF	100NF,20%,250V,-,15MM,BK	
C808	31469-504-060	2201-000954	C-CERAMIC,DISC	4.7NF,20%,400V,Y5U,7X16,1	
C808A	31469-504-060	2201-000954	C-CERAMIC,DISC	4.7NF,20%,400V,Y5U,7X16,1	
C809	A1104-0772	2401-002292	C-AL	47UF,20%,25V,WT,8X11MM,5M	
C811	31469-102-010	2201-000331	C-CERAMIC,DISC	2.2NF,20%,250V,Y5U,11X7.5	
C812	31469-102-010	2201-000331	C-CERAMIC,DISC	2.2NF,20%,250V,Y5U,11X7.5	
C813		2401-003066	C-AL	10UF,20%,450V,GP,13X20,5M	
C814	A1104-0850	2401-002222	C-AL	220UF,20%,450V,WT,30X40,1	
C815	A1104-0850	2401-002222	C-AL	220UF,20%,450V,WT,30X40,1	
C816	31607-403-210	2401-000395	C-AL	10UF,20%,160V,GP,10X12.5M	
C817	A1104-0527	2401-002459	C-AL	220UF,20%,25V,LZ,10X16MM,	
C818	31417-901-580	2201-000551	C-CERAMIC,DISC	470PF,10%,1KV,Y5P,-,5,TP	
C819	31609-403-410	2401-002251	C-AL	470UF,20%,200V,GP,25X40,1	
C820	31609-403-360	2401-000822	C-AL	220UF,20%,200V,WT,22X35MM	
C821	31417-901-580	2201-000551	C-CERAMIC,DISC	470PF,10%,1KV,Y5P,-,5,TP	
C822	31609-402-350	2401-000737	C-AL	2200UF,20%,50V,GP,18X36MM	
C823	A1104-0618	2401-000192	C-AL	1000UF,20%,50V,GP,16X25.7	
C824	31417-106-090	2201-000556	C-CERAMIC,DISC	470PF,10%,500V,Y5P,6X3.5,	
C825	A1104-0534	2401-000166	C-AL	1000UF,20%,25V,WT,13X20MM	
C826	A1104-0012	2401-001397	C-AL	470UF,20%,25V,GP,10X16MM,	
C827	31417-106-090	2201-000556	C-CERAMIC,DISC	470PF,10%,500V,Y5P,6X3.5,	
C828	31607-401-510	2401-000133	C-AL	1000UF,20%,16V,GP,10X20MM	
C829	31607-401-470	2401-000269	C-AL	100UF,20%,16V,GP,6X11MM,5	
C830	A1102-0293	2305-000412	C-FILM,MPEF	470NF,5%,63V,-,5MM,TP	
C831	31607-401-460	2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
C833	31607-401-500	2401-002463	C-AL	470UF,20%,16V,GP,8X12.5,T	
C834	31469-102-010	2201-000331	C-CERAMIC,DISC	2.2NF,20%,250V,Y5U,11X7.5	
CH01	31607-401-680	2401-000302	C-AL	100UF,20%,25V,GP,6X11MM,5	
CH02	31607-401-690	2401-000832	C-AL	220UF,20%,25V,GP,8X11MM,5	
CH03	31607-974-003	2401-000471	C-AL	10UF,20%,50V,BP,6X11MM,5M	
CH04	31607-401-680	2401-000302	C-AL	100UF,20%,25V,GP,6X11MM,5	
CH05	31607-403-870	2401-001621	C-AL	6.8UF,20%,450V,GP,13X20MM	
CN01	33347-110-410	3711-002641	CONNECTOR-HEADER	BOX,10P,1R,2.5MM,STRAIGHT	
CNB03	33050-104-120	3710-000131	CONNECTOR-SOCKET	12P,1R,2.5MM,STRAIGHT,SN	
CNB04	33050-104-120	3710-000131	CONNECTOR-SOCKET	12P,1R,2.5MM,STRAIGHT,SN	
CNB13	33347-114-810	3711-002643	CONNECTOR-HEADER	BOX,4P,1R,2.5MM,STRAIGHT,	
D301	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D302	32167-406-130	0403-000563	DIODE-ZENER	MTZ9.1B,9.1V,8.57-9.01V,5	
D303	32167-406-270	0403-000494	DIODE-ZENER	MTZ39B,39V,35.36/37.19V,5	
D304	A4106-0227	0403-000700	DIODE-ZENER	TZP33A,33V,31-35V,1W,DO-4	
D305	32167-406-190	0403-000658	DIODE-ZENER	MTZ18A,18V,16.22-17.06V,5	
D306	32167-406-190	0403-000658	DIODE-ZENER	MTZ18A,18V,16.22-17.06V,5	
D401	32167-201-070	0402-000129	DIODE-RECTIFIER	1N4003,200V,1A,DO-41	
D402	32167-201-070	0402-000129	DIODE-RECTIFIER	1N4003,200V,1A,DO-41	
D403	32169-201-200	0402-000266	DIODE-RECTIFIER	RH4F,1500V,1.5A,-	
D404	32169-201-230	0402-000542	DIODE-RECTIFIER	RU4AM,600V,2A,-	
D405	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D406	B4102-0078	0402-000243	DIODE-RECTIFIER	RC2-V1,2000V,0.2A,DO-201	
D407	B4102-0078	0402-000243	DIODE-RECTIFIER	RC2-V1,2000V,0.2A,DO-201	
D408	B4102-0078	0402-000243	DIODE-RECTIFIER	RC2-V1,2000V,0.2A,DO-201	
D409	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D410	B4102-0052	0402-000534	DIODE-RECTIFIER	RG10V,400V,1.2A,DO-201,TP	
D411	B4102-0052	0402-000534	DIODE-RECTIFIER	RG10V,400V,1.2A,DO-201,TP	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
D412	B4102-0052	0402-000534	DIODE-RECTIFIER	RG10V,400V,1.2A,DO-201,TP	
D415	B4102-0090	0402-000537	DIODE-RECTIFIER	RH1A,600V,0.6A,DO-204AC	
D802	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,500MW,4	
D803		0406-001007	DIODE-TVS	P6KE180A,171/180/189V,600	
D804	B4102-0078	0402-000243	DIODE-RECTIFIER	RC2-V1,2000V,0.2A,DO-201	
D805	B4104-0093	0402-000550	DIODE-BRIDGE	D2SBA60,600V,1.5A,-	
⚠ D806	32169-101-100	0402-000549	DIODE-BRIDGE	RBV606,600V,6A,-	
D807	32167-208-580	0402-000213	DIODE-RECTIFIER	ERB12-06,600V,1.0A,DO-41	
D808	32167-207-120	0402-000493	DIODE-RECTIFIER	1R5GU41,400V,1.5A,DO-15L	
D809	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D810	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D811	A4106-0204	0403-000704	DIODE-ZENER	TZP7.5B,7.5V,7.5-8.4V,1W,	
D812	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D813	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D814	A1330-0063	1405-000152	VARISTOR	560V,2500A,14X8.5MM,TP	
D814A	A1330-0063	1405-000152	VARISTOR	560V,2500A,14X8.5MM,TP	
D816	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
⚠ D817	B4102-0074	0402-000231	DIODE-RECTIFIER	FMG-G26S,600V,4A,TO-220F	
⚠ D818	32169-101-090	0402-000233	DIODE-RECTIFIER	FML-G12S,200V,5A,-	
⚠ D819A	32169-101-090	0402-000233	DIODE-RECTIFIER	FML-G12S,200V,5A,-	
D821	32169-201-240	0402-000544	DIODE-RECTIFIER	RU4Y,100V,2A,-	
D822	32167-403-780	0403-000656	DIODE-ZENER	MTZ15C,15V,14.35-15.09V,5	
D823	B4102-0052	0402-000534	DIODE-RECTIFIER	RG10V,400V,1.2A,DO-201,TP	
D824	32167-201-070	0402-000129	DIODE-RECTIFIER	1N4003,200V,1A,DO-41	
D825	32167-201-070	0402-000129	DIODE-RECTIFIER	1N4003,200V,1A,DO-41	
D826	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D827	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
DFH01		AA13-20004G	IC-HYBRID	DP,DFM001,SIP,9,DYNAMIC F	
DH01	B4102-0078	0402-000243	DIODE-RECTIFIER	RC2-V1,2000V,0.2A,DO-201	
DH02	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,500MW,4	
DZ401	A4106-0234	0403-000701	DIODE-ZENER	TZP5.1A,5.1V,4.8-5.4V,1W,	
DZ801	A4106-0237	0403-000697	DIODE-ZENER	TZP10A,10V,9.4-10.6V,1W,D	
DZH01	32167-406-150	0403-000655	DIODE-ZENER	MTZ13A,13V,12.11-12.75V,5	
⚠ IC301	B4012-0269	1204-000517	IC-VERTIVAL DEF.	LA7845,SIP,7P,-,PLASTIC,4	
⚠ IC401	32119-201-010	1201-000191	IC-OP AMP	4558,DIP,8P,300MIL,DUAL,2	
⚠ IC801	B4010-0042	AA13-20002K	IC-HYBRID	-,STR-S6709 LF953,SIP,9P,	
⚠ IC802	32309-024-040	0604-000117	PHOTO-COUPLER	TR,130-260%,200MW,DIP-4,S	
⚠ IC803	B4012-0664	1203-000584	IC-PWM CONTROLLER	210,DIP,8P,245MIL,PLASTIC	
J428	34047-019-060	3301-000287	CORE-FERRITE BEAD	AA,3.5X1.0X6.0MM,1500,240	
L301		AA27-40003C	COIL-HORIZ,WIDTH	-,70UH/200UH,SB-5S 6 20,U	
L402		AA27-30003B	COIL-LINERITY	-,50UH,YL8114X15,0.2X10.3	
L403		AA27-40003F	COIL-HORIZ,WIDTH	-,3.0MH,ER14X20,P10.35,-	
L404		AA27-40003E	COIL-HORIZ,WIDTH	-,560UH,YL81 15X23,P10.6,	
L801		AA29-30002F	FILTER-LINE NOISE	-,6MH,2.45A,-,-	
L802		AA29-30002F	FILTER-LINE NOISE	-,6MH,2.45A,-,-	
L803	34047-019-060	3301-000287	CORE-FERRITE BEAD	AA,3.5X1.0X6.0MM,1500,240	
L804	34047-019-060	3301-000287	CORE-FERRITE BEAD	AA,3.5X1.0X6.0MM,1500,240	
L805	32429-904-790	AA27-10002L	COIL-CHOKE	-,24UH,K,-,2A,-,24UH-K,10	
L806	34047-019-060	3301-000287	CORE-FERRITE BEAD	AA,3.5X1.0X6.0MM,1500,240	
L807	32429-904-790	AA27-10002L	COIL-CHOKE	-,24UH,K,-,2A,-,24UH-K,10	
L808	34047-019-060	3301-000287	CORE-FERRITE BEAD	AA,3.5X1.0X6.0MM,1500,240	
L809	32429-904-790	AA27-10002L	COIL-CHOKE	-,24UH,K,-,2A,-,24UH-K,10	
L811	34047-019-060	3301-000287	CORE-FERRITE BEAD	AA,3.5X1.0X6.0MM,1500,240	
L812	32429-904-790	AA27-10002L	COIL-CHOKE	-,24UH,K,-,2A,-,24UH-K,10	
L813	34047-019-060	3301-000287	CORE-FERRITE BEAD	AA,3.5X1.0X6.0MM,1500,240	
L815	34047-019-060	3301-000287	CORE-FERRITE BEAD	AA,3.5X1.0X6.0MM,1500,240	
L816	34047-019-060	3301-000287	CORE-FERRITE BEAD	AA,3.5X1.0X6.0MM,1500,240	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
⚠ Q401		0502-001007	TR-POWER	KSC2073-H2,NPN,150V,150V,	
⚠ Q402	32159-210-032	0502-000450	TR-POWER	2SD1887YD,NPN,1500V,800V,	
⚠ Q404	32137-401-530	0501-000283	TR-SMALL SIGNAL	KSA539-Y,PNP,-60V,-45V,-2	
⚠ Q405	A4052-0058	0502-000298	TR-POWER	KSD73-Y,NPN,30W,TO-220,-,	
⚠ Q801	A4058-0009	0503-000153	TR-DARLINGTON	TIP102,NPN,100V,100V,8A,2	
⚠ Q802		AA13-20004H	IC-HYBRID	-,SE135N-LF12,TO220-LF12,	
⚠ Q803	32137-301-560	0501-000369	TR-SMALL SIGNAL	KSC2331-Y,NPN,80V,60V,700	
⚠ Q804	32137-301-560	0501-000369	TR-SMALL SIGNAL	KSC2331-Y,NPN,80V,60V,700	
⚠ QH01	B4056-0050	0502-000442	TR-POWER	2SC4636RB,NPN,2W,TO-220,S	
R301	31047-854-322	2004-001897	R-METAL(S)	43.2KOHM,1%,1/2W,AA,TP,2.	
R302	31049-375-104	2004-001373	R-METAL(S)	100KOHM,1%,1/2W,AA,TP,2.4	
R303	A1006-0669	2004-001403	R-METAL(S)	7.5KOHM,1%,1/2W,AA,TP,2.4	
R304	A1006-0833	2004-001984	R-METAL	26.7KOHM,1%,1/2W,AA,TP,2.	
R305		2003-002014	R-METAL OXIDE(S)	0.6OHM,5%,2W,AF,TP,3.9X10	
R306	A1004-0430	2003-000458	R-METAL OXIDE(S)	100OHM,5%,2W,AF,TP,4X12MM	
R306A	A1004-0478	2003-001023	R-METAL OXIDE(S)	120OHM,5%,2W,AF,TP,3.9X10	
R307	31018-377-109	2001-000016	R-CARBON(S)	1OHM,5%,1/2W,AA,TP,2.4X6.	
R309	31048-361-001	2004-001390	R-METAL(S)	1KOHM,2%,1/2W,AA,TP,2.4X6	
R310	31018-377-102	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6	
R401	31018-327-221	2001-001407	R-CARBON(S)	220OHM,5%,1/2W,AA,BK,2.4X	
R402	A1000-0618	2001-001199	R-CARBON(S)	91OHM,5%,1/2W,AA,TP,2.4X6	
R403	31018-377-331	2001-000037	R-CARBON(S)	330OHM,5%,1/2W,AA,TP,2.4X	
R404	31018-377-220	2001-000020	R-CARBON(S)	22OHM,5%,1/2W,AA,TP,2.4X6	
R405	31018-377-561	2001-001163	R-CARBON(S)	560OHM,5%,1/2W,AA,TP,2.4X	
R406	31047-854-322	2004-001897	R-METAL(S)	43.2KOHM,1%,1/2W,AA,TP,2.	
R407	A1006-0739	2004-001376	R-METAL(S)	11KOHM,1%,1/2W,AA,TP,2.4X	
R408	A1006-0670	2004-001379	R-METAL(S)	12KOHM,1%,1/2W,AA,TP,2.4X	
R409	31048-361-001	2004-001390	R-METAL(S)	1KOHM,2%,1/2W,AA,TP,2.4X6	
R410	31018-376-394	2001-001409	R-CARBON(S)	390KOHM,2%,1/2W,AA,TP,6.5	
R411	31018-377-332	2001-000052	R-CARBON(S)	3.3KOHM,5%,1/2W,AA,TP,2.4	
R412	A1000-0633	2001-001044	R-CARBON(S)	1.1KOHM,5%,1/2W,AA,TP,2.4	
R413	31018-377-681	2001-001178	R-CARBON(S)	680OHM,5%,1/2W,AA,TP,2.4X	
R414	31057-002-130	2008-000221	R-FUSIBLE	0.47OHM,10%,1/2W,AA,TP,4.	
R415	A1000-0398	2001-001120	R-CARBON(S)	3.3OHM,5%,1/2W,AA,TP,2.4X	
R416	31048-363-303	2004-001395	R-METAL(S)	330KOHM,2%,1/2W,AA,TP,2.4	
R417	31057-002-010	2008-000263	R-FUSIBLE	1OHM,5%,1/2W,AA,TP,4.7X11	
R418		2008-001002	R-FUSIBLE(S)	0.18OHM,5%,2W,AA,TP,3.9X1	
R419	31057-002-130	2008-000221	R-FUSIBLE	0.47OHM,10%,1/2W,AA,TP,4.	
R420		2008-001005	R-FUSIBLE	0.47OHM,10%,1W,AA,TP,4.7X	
R421	31057-002-130	2008-000221	R-FUSIBLE	0.47OHM,10%,1/2W,AA,TP,4.	
R422		2008-001019	R-FUSIBLE	0.2OHM,10%,1/2W,AA,TP,4.7	
R424	31047-352-202	2004-001893	R-METAL(S)	22KOHM,1%,1/2W,AA,TP,2.5X	
R425	A1006-0833	2004-001984	R-METAL	26.7KOHM,1%,1/2W,AA,TP,2.	
R426	A1006-0554	2004-000698	R-METAL	3.3KOHM,1%,1/4W,AA,TP,2.4	
R427	31048-361-001	2004-001390	R-METAL(S)	1KOHM,2%,1/2W,AA,TP,2.4X6	
R453	31018-377-479	2001-001146	R-CARBON(S)	4.7OHM,5%,1/2W,AA,TP,2.4X	
R457	A1004-0422	2003-000586	R-METAL OXIDE(S)	22KOHM,5%,2W,AF,TP,4X12MM	
R457A	A1004-0422	2003-000586	R-METAL OXIDE(S)	22KOHM,5%,2W,AF,TP,4X12MM	
R801	A1332-0017	1404-000178	THERMISTOR-PTC	7OHM,20%,-,290V,25A,-,BK	
⚠ R802	31028-328-825	2002-000334	R-COMPOSITION	8.2MOHM,10%,1/2W,AA,TP,3.	
R803	32189-609-381	1404-000181	THERMISTOR-NTC	4.7OHM,20%,2900K,-,BK	
R804	31018-377-270	2001-001116	R-CARBON(S)	27OHM,5%,1/2W,AA,TP,2.4X6	
R805	A1004-0454	2003-001093	R-METAL OXIDE(S)	12KOHM,5%,2W,AF,TP,3.9X10	
R806	31046-567-183	2003-000527	R-METAL OXIDE(S)	18KOHM,5%,2W,AA,TP,4X12MM	
R808	31018-377-334	2001-001129	R-CARBON(S)	330KOHM,5%,1/2W,AA,TP,2.4	
R809	31018-377-334	2001-001129	R-CARBON(S)	330KOHM,5%,1/2W,AA,TP,2.4	
R810		2009-001001	R-METAL PLATE	0.12OHM,10%,5W,CL,TP,5X14	
R811	A1000-0586	2001-001117	R-CARBON(S)	2KOHM,5%,1/2W,AA,TP,2.4X6	
R812	A1000-0390	2001-001093	R-CARBON(S)	2.2KOHM,5%,1/2W,AA,TP,2.4	
R813	31018-377-102	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6	
R814		2006-001008	R-CEMENT	8.2OHM,5%,5W,CJ,TP,10.5X1	
R815	A1000-0586	2001-001117	R-CARBON(S)	2KOHM,5%,1/2W,AA,TP,2.4X6	
R816	A1000-0586	2001-001117	R-CARBON(S)	2KOHM,5%,1/2W,AA,TP,2.4X6	
R817	A1004-0431	2003-001090	R-METAL OXIDE(S)	10KOHM,5%,2W,AF,TP,4X12MM	
R817A	A1004-0454	2003-001093	R-METAL OXIDE(S)	12KOHM,5%,2W,AF,TP,3.9X10	
R818	31018-377-102	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6	
R819	A1000-0643	2001-001097	R-CARBON(S)	2.4KOHM,5%,1/2W,AA,TP,2.4	
R821	31018-377-102	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6	
R822	31018-377-102	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6	
R824	31018-377-180B	2001-001087	R-CARBON(S)	18OHM,5%,1/2W,AA,TP,2.4X6	
R825	31018-377-470	2001-001153	R-CARBON(S)	47OHM,5%,1/2W,AA,TP,2.4X6	
R828		2008-001011	R-FUSIBLE(S)	0.18OHM,10%,2W,AF,TP,3.9X	
R831	31018-327-101	2001-001400	R-CARBON(S)	100OHM,5%,1/2W,AA,BK,2.4X	
R832	31018-377-392	2001-001122	R-CARBON(S)	3.9KOHM,5%,1/2W,AA,TP,2.4	
R833	31018-377-153	2001-001078	R-CARBON(S)	15KOHM,5%,1/2W,AA,TP,2.4X	
⚠ RH01	31028-328-473	2002-000332	R-COMPOSITION	47KOHM,10%,1/2W,AA,TP,3.5	
RH02	31018-377-114	2001-001065	R-CARBON(S)	110KOHM,5%,1/2W,AA,TP,2.4	
RH03	31018-377-114	2001-001065	R-CARBON(S)	110KOHM,5%,1/2W,AA,TP,2.4	
RH04	31018-377-154	2001-000107	R-CARBON(S)	150KOHM,5%,1/2W,AA,TP,2.4	
RH05	31018-377-154	2001-000107	R-CARBON(S)	150KOHM,5%,1/2W,AA,TP,2.4	
RH06	31018-377-154	2001-000107	R-CARBON(S)	150KOHM,5%,1/2W,AA,TP,2.4	
RH07		2008-001008	R-FUSIBLE	150OHM,5%,1W,AA,TP,4.7X12	
RH08	31018-377-304	2001-001125	R-CARBON(S)	300KOHM,5%,1/2W,AA,TP,2.4	
RH09	31047-351-623	2004-001892	R-METAL(S)	162KOHM,1%,1/2W,AA,TP,2.5	
RH10	31047-351-623	2004-001892	R-METAL(S)	162KOHM,1%,1/2W,AA,TP,2.5	
RH11	31018-377-304	2001-001125	R-CARBON(S)	300KOHM,5%,1/2W,AA,TP,2.4	
RH13	31018-377-334	2001-001129	R-CARBON(S)	330KOHM,5%,1/2W,AA,TP,2.4	
RH14	31047-351-623	2004-001892	R-METAL(S)	162KOHM,1%,1/2W,AA,TP,2.5	
RH15	31018-377-334	2001-001129	R-CARBON(S)	330KOHM,5%,1/2W,AA,TP,2.4	
RH16	31047-351-623	2004-001892	R-METAL(S)	162KOHM,1%,1/2W,AA,TP,2.5	
RH17	31018-377-432	2001-001143	R-CARBON(S)	4.3KOHM,5%,1/2W,AA,TP,2.4	
RH18	31018-377-102	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6	
RH19	31018-377-562	2001-001155	R-CARBON(S)	5.6KOHM,5%,1/2W,AA,TP,2.4	
RH20	31018-327-121	2001-001406	R-CARBON(S)	120OHM,5%,1/2W,AA,BK,2.4X	
RH21	A1000-0398	2001-001120	R-CARBON(S)	3.3OHM,5%,1/2W,AA,TP,2.4X	
RL801	34729-004-010	3501-000285	RELAY-POWER	12V,-,10A,-,15MS,5MS	
⚠ RL802	A3068-0105	3501-000321	RELAY-POWER	5V,-,10A,-,15MS,5MS	
⚠ T301	A1204-0003	AA26-70001Q	TRANS-PINCUSHION	-,1.85MH,182UH,-,PI1726EQ	
⚠ T401	A1202-0007	AA26-50001L	HORIZ.DRIVE	-,29MH,133UH,4.5UH,EI2218	
⚠ T444	A1201-0071	AA26-30003B	TRANS-FRYBACK	-,FCZ-29A006,29",130V	
⚠ T801	A1206-0111	AA26-20004N	TRANS-SWITCHING	-,90~260V,KS,EER534521,44	
⚠ T802	A1206-0110	AA26-20004M	TRANS-SWITCHING	-,90~260V,KS,EE2118,7.92M	

ASSY-PCB,CRT

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
		AA95-20005U	ASSY-PCB,CRT	-,SCT52A,29",-,1"MORE	
C501	31407-105-090	2201-000193	C-CERAMIC,DISC	10PF,0.3PF,50V,NPO,-,5,TP	
C502	31407-105-090	2201-000193	C-CERAMIC,DISC	10PF,0.3PF,50V,NPO,-,5,TP	
C503	31407-105-090	2201-000193	C-CERAMIC,DISC	10PF,0.3PF,50V,NPO,-,5,TP	
C504	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C505	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C506	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C507	31417-109-220	2201-000379	C-CERAMIC,DISC	22NF,+80-20%,50V,Y5V,8.0X	

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C508	31417-109-220	2201-000379	C-CERAMIC,DISC	22NF,+80-20%,50V,Y5V,8.0X	
C509	31417-109-220	2201-000379	C-CERAMIC,DISC	22NF,+80-20%,50V,Y5V,8.0X	
⚠ C510	31519-003-020	2305-000133	C-FILM,MPEF	100NF,10%,400V,21.5X6.5X1	
⚠ C511	31519-003-020	2305-000133	C-FILM,MPEF	100NF,10%,400V,21.5X6.5X1	
⚠ C512	31519-003-020	2305-000133	C-FILM,MPEF	100NF,10%,400V,21.5X6.5X1	
C513	31417-104-250	2201-000558	C-CERAMIC,DISC	470PF,10%,50V,Y5P,4X3.5,5	
C514	31417-104-250	2201-000558	C-CERAMIC,DISC	470PF,10%,50V,Y5P,4X3.5,5	
C515	31417-104-250	2201-000558	C-CERAMIC,DISC	470PF,10%,50V,Y5P,4X3.5,5	
C517	A1100-0831	2201-000969	C-CERAMIC,DISC	10NF,+80-20%,3KV,Y5V,-,10	
C518	A1104-0747	2401-002264	C-AL	10UF,20%,350V,GP,10X20MM,	
C519	31607-402-070	2401-000947	C-AL	22UF,20%,35V,GP,5X11MM,-,	
C520	31607-401-530	2401-000689	C-AL	2200UF,20%,16V,GP,16X25MM	
CG01	31607-401-690	2401-000832	C-AL	220UF,20%,25V,GP,8X11MM,5	
CG02	A1102-0302	2305-000149	C-FILM,MPEF	100NF,5%,100V,7.5X4.0X5.0	
CG03	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
CG04	31607-401-690	2401-000832	C-AL	220UF,20%,25V,GP,8X11MM,5	
CN503B	33347-114-810	3711-002643	CONNECTOR-HEADER	BOX,4P,1R,2.5MM,STRAIGHT,	
CP501	33347-110-410	3711-002641	CONNECTOR-HEADER	BOX,10P,1R,2.5MM,STRAIGHT	
CP501	33058-015-016	AA39-20025E	LEAD-CONNECTOR,ASSY	-,67096-010,S,10P,400,100	
CPV01	33345-110-310	3711-000661	CONNECTOR-HEADER	BOX,12P,1R,2.5MM,STRAIGHT	
CPV01	33058-023-016	AA39-20032C	LEAD-CONNECTOR,ASSY	-,67096-012,S,12P,400,100	
CPV02	33347-108-310	3711-002642	CONNECTOR-HEADER	BOX,3P,1R,2.5MM,STRAIGHT,	
CV01	31607-401-690	2401-000832	C-AL	220UF,20%,25V,GP,8X11MM,5	
CV02	31417-318-103	2201-000179	C-CERAMIC,DISC	10NF,10%,50V,Y5V,12.5X4.0	
CV03	31417-318-103	2201-000179	C-CERAMIC,DISC	10NF,10%,50V,Y5V,12.5X4.0	
CV04	31417-318-103	2201-000179	C-CERAMIC,DISC	10NF,10%,50V,Y5V,12.5X4.0	
CV05	31507-137-007	2301-000231	C-FILM,PEF	3.3NF,5%,100V,5.8X12.5MM,	
CV06	31407-106-640	2201-000992	C-CERAMIC,DISC	56PF,10%,50V,RH,4X3.5,5,T	
CV07	31417-318-103	2201-000179	C-CERAMIC,DISC	10NF,10%,50V,Y5V,12.5X4.0	
CV08	31417-318-103	2201-000179	C-CERAMIC,DISC	10NF,10%,50V,Y5V,12.5X4.0	
CV09	31417-106-190	2201-000441	C-CERAMIC,DISC	3.3NF,10%,500V,Y5P,10X4.5	
CV10	31607-403-490	2401-000430	C-AL	10UF,20%,250V,GP,10X16.5,	
CV11	31407-105-090	2201-000193	C-CERAMIC,DISC	10PF,0.3PF,50V,NPO,-,5,TP	
CV12	31407-105-090	2201-000193	C-CERAMIC,DISC	10PF,0.3PF,50V,NPO,-,5,TP	
CV13	A1104-0567	2401-001527	C-AL	47UF,20%,250V,HR,13X25MM,	
CV14	A1104-0567	2401-001527	C-AL	47UF,20%,250V,HR,13X25MM,	
CV15	31407-208-040	2201-000604	C-CERAMIC,DISC	56PF,+100-0%,500V,SL,-,5,	
CV16	31607-403-210	2401-000395	C-AL	10UF,20%,160V,GP,10X12.5M	
CV17	31417-106-190	2201-000441	C-CERAMIC,DISC	3.3NF,10%,500V,Y5P,10X4.5	
CV18	31507-137-009	2301-000261	C-FILM,PEF	4.7NF,5%,100V,10.5X12.5X6	
D501	32167-201-070	0402-000129	DIODE-RECTIFIER	1N4003,200V,1A,DO-41	
D502	32167-441-005	0403-000551	DIODE-ZENER	MTZ3.9B,3.9V,3.89-4.16V,5	
D503	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D504	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D505	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D506	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D507	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D508	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D509	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
DG01	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,500MW,4	
DV01	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,500MW,4	
DV02	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148,100V,200MA,500MW,4	
DV03	32167-201-070	0402-000129	DIODE-RECTIFIER	1N4003,200V,1A,DO-41	
DV04	32167-201-070	0402-000129	DIODE-RECTIFIER	1N4003,200V,1A,DO-41	
DVZ01	32167-406-260	0403-000668	DIODE-ZENER	MTZ8.2B,8.2V,7.78-8.19V,5	
DZ501	32167-403-780	0403-000656	DIODE-ZENER	MTZ15C,15V,14.35-15.09V,5	
DZ502	32167-406-150	0403-000655	DIODE-ZENER	MTZ13A,13V,12.11-12.75V,5	

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
DZ503	32167-403-780	0403-000656	DIODE-ZENER	MTZ15C,15V,14.35-15.09V,5	
DZ504	32167-406-150	0403-000655	DIODE-ZENER	MTZ13A,13V,12.11-12.75V,5	
DZ505	32167-403-780	0403-000656	DIODE-ZENER	MTZ15C,15V,14.35-15.09V,5	
DZ506	32167-406-150	0403-000655	DIODE-ZENER	MTZ13A,13V,12.11-12.75V,5	
GT503	33054-834-014	AA39-20010B	LEAD-CONNECTOR,ASSY	-,YFH800-01,S,1P,500,1617	
⚠ IC501,2,3	32119-110-111	1201-000506	IC-VIDEO AMP	6101,ZIP,9P,-,SINGLE,-,PL	
IC504	32119-201-010	1201-000191	IC-OP AMP	4558,DIP,8P,300MIL,DUAL,2	
J521	34047-019-060	3301-000287	CORE-FERRITE BEAD	AA,3.5X1.0X6.0MM,1500,240	
LV01	32427-226-080	AA27-10001E	COIL-CHOKE	-,1.0UH,K,25,2100A,T,SP04	
QG01	32137-401-530	0501-000283	TR-SMALL SIGNAL	KSA539-Y,PNP,-60V,-45V,-2	
QG02	A4052-0055	0502-000244	TR-POWER	KSA940,PNP,1.5W,TO-220,-,	
QG03	A4052-0059	0502-000260	TR-POWER	2SC2073,NPN,25W,TO-220,-,	
QV01	32157-210-000	0501-000245	TR-SMALL SIGNAL	BC548C,NPN,500MW,TO-92,TP	
QV02	32137-401-530	0501-000283	TR-SMALL SIGNAL	KSA539-Y,PNP,-60V,-45V,-2	
QV03	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
QV04	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
QV05	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
QV06	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
QV07	32137-401-530	0501-000283	TR-SMALL SIGNAL	KSA539-Y,PNP,-60V,-45V,-2	
⚠ QV08	32149-101-080	0502-000131	TR-POWER	2SA1011-D,PNP,-180V,-160V	
⚠ QV09	32149-301-180	0502-000153	TR-POWER	2SC2344-D,NPN,180V,160V,1	
QV10	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y,NPN,60V,45V,200M	
R501	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R502	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R503	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R504	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R505	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R506	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R508	31018-177-183	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X	
R509	31018-177-154	2001-000356	R-CARBON	150KOHM,5%,1/8W,AA,TP,1.8	
R511	31018-177-122	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8	
R512	31018-177-122	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8	
R513	31018-177-122	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8	
R514	A1000-0310	2001-001160	R-CARBON(S)	51KOHM,5%,1/2W,AA,TP,2.4X	
R515	A1000-0310	2001-001160	R-CARBON(S)	51KOHM,5%,1/2W,AA,TP,2.4X	
R516	A1000-0310	2001-001160	R-CARBON(S)	51KOHM,5%,1/2W,AA,TP,2.4X	
R517	31018-177-221	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X	
R518	31018-177-221	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X	
R519	31018-177-221	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X	
R520	31018-377-511	2001-001159	R-CARBON(S)	510OHM,5%,1/2W,AA,TP,2.4X	
⚠ R521	31028-327-182	2002-000325	R-COMPOSITION	1.8KOHM,5%,1/2W,AA,TP,3.5	
⚠ R522	31028-327-182	2002-000325	R-COMPOSITION	1.8KOHM,5%,1/2W,AA,TP,3.5	
⚠ R523	31028-327-182	2002-000325	R-COMPOSITION	1.8KOHM,5%,1/2W,AA,TP,3.5	
R524	31018-377-105	2001-000096	R-CARBON(S)	1MOHM,5%,1/2W,AA,TP,2.4X6	
⚠ R525	31028-327-182	2002-000325	R-COMPOSITION	1.8KOHM,5%,1/2W,AA,TP,3.5	
R526	31057-201-032	2008-000198	R-FUSIBLE	82OHM,5%,2W,AA,TP,6X15.5M	
RG01	A1006-0741	2004-001397	R-METAL(S)	4.7KOHM,1%,1/2W,AA,TP,2.4	
RG02	31047-854-322	2004-001897	R-METAL(S)	43.2KOHM,1%,1/2W,AA,TP,2.	
RG03	A1006-0672	2004-001402	R-METAL(S)	6.8KOHM,1%,1/2W,AA,TP,2.4	
RG04	31047-352-202	2004-001893	R-METAL(S)	22KOHM,1%,1/2W,AA,TP,2.5X	
RG05	31018-377-561	2001-001163	R-CARBON(S)	560OHM,5%,1/2W,AA,TP,2.4X	
RG06	31018-377-279	2001-001100	R-CARBON(S)	2.7OHM,5%,1/2W,AA,TP,2.4X	
RG07	31018-377-279	2001-001100	R-CARBON(S)	2.7OHM,5%,1/2W,AA,TP,2.4X	
RG08	31018-377-561	2001-001163	R-CARBON(S)	560OHM,5%,1/2W,AA,TP,2.4X	
RV01	31057-002-100	2008-000179	R-FUSIBLE(S)	10OHM,5%,1/2W,AA,TP,2.5X6	
RV02	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
RV03	31018-377-681	2001-001178	R-CARBON(S)	680OHM,5%,1/2W,AA,TP,2.4X	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
RV04	31018-177-123	2001-000331	R-CARBON	12KOHM.5%.1/8W.AA.TP.1.8X	
RV05	31018-177-682	2004-001140	R-METAL	6.8KOHM.5%.1/8W.AA.TP.1.8	
RV06	31018-177-222	2001-000449	R-CARBON	2.2KOHM.5%.1/8W.AA.TP.1.8	
RV07	31018-177-222	2001-000449	R-CARBON	2.2KOHM.5%.1/8W.AA.TP.1.8	
RV09	31018-177-471	2001-000780	R-CARBON	470OHM.5%.1/8W.AA.TP.1.8X	
RV10	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
RV11	A1010-0039	2008-000196	R-FUSIBLE(S)	560OHM.5%.2W.AA.BK.3.9X10	
RV12	A1000-0407	2001-001192	R-CARBON(S)	820OHM.5%.1/2W.AA.TP.2.4X	
RV13	31018-177-470	2001-000793	R-CARBON	47OHM.5%.1/8W.AA.TP.1.8X3	
RV14	31018-377-101	2001-000028	R-CARBON(S)	100OHM.5%.1/2W.AA.TP.2.4X	
RV15	31018-177-203	2001-000009	R-CARBON	20KOHM.5%.1/8W.AA.TP.1.8X	
RV16	31018-177-203	2001-000009	R-CARBON	20KOHM.5%.1/8W.AA.TP.1.8X	
RV17	31018-177-333	2001-000660	R-CARBON	33KOHM.5%.1/8W.AA.TP.1.8X	
RV18	31018-177-470	2001-000793	R-CARBON	47OHM.5%.1/8W.AA.TP.1.8X3	
RV19	31018-377-100	2001-000019	R-CARBON(S)	10OHM.5%.1/2W.AA.TP.2.4X6	
RV20	31018-177-820	2004-001308	R-METAL	82OHM.5%.1/8W.AA.TP.1.8X3	
RV21	31018-177-820	2004-001308	R-METAL	82OHM.5%.1/8W.AA.TP.1.8X3	
RV22	31018-377-122	2001-001045	R-CARBON(S)	1.2KOHM.5%.1/2W.AA.TP.2.4	
RV23	31018-377-152	2001-001050	R-CARBON(S)	1.5KOHM.5%.1/2W.AA.TP.2.4	
RV24	31018-377-683	2001-001179	R-CARBON(S)	68KOHM.5%.1/2W.AA.TP.2.4X	
RV25	31018-377-683	2001-001179	R-CARBON(S)	68KOHM.5%.1/2W.AA.TP.2.4X	
RV26	31018-377-152	2001-001050	R-CARBON(S)	1.5KOHM.5%.1/2W.AA.TP.2.4	
RV27	31018-377-122	2001-001045	R-CARBON(S)	1.2KOHM.5%.1/2W.AA.TP.2.4	
RV28	A1004-0427	2003-000746	R-METAL OXIDE(S)	56OHM.5%.2W.AF.TP.4X12MM	
RV29	31018-377-473	2001-001152	R-CARBON(S)	47KOHM.5%.1/2W.AA.TP.2.4X	
RV30	A1004-0427	2003-000746	R-METAL OXIDE(S)	56OHM.5%.2W.AF.TP.4X12MM	
RV31	31018-377-279	2001-001100	R-CARBON(S)	2.7OHM.5%.1/2W.AA.TP.2.4X	
RV32	31018-377-279	2001-001100	R-CARBON(S)	2.7OHM.5%.1/2W.AA.TP.2.4X	
RV33	A1004-0449	2003-001018	R-METAL OXIDE(S)	220OHM.5%.2W.AF.TP.3.9X10	
RV34	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
⚠ V501•	A3047-0019	3704-000116	SOCKET-CRT	7P.32.5PI.35.5PI.SN	

ASSY-PCB,TTX

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•	3039-00001-510	AA95-90003Z	ASSY-PCB.TTX	-.CS7277PTR/BWX.SCT51A.PA	
CNT01	33124-210-012	3711-002709	CONNECTOR-HEADER	NOWALL.12P.1R.2.5MM.ANGLE	
CNT02	33124-210-007	3711-002705	CONNECTOR-HEADER	NOWALL.7P.1R.2.5MM.ANGLE.	
CT01	31507-127-026	2305-000411	C-FILM.MPEF	470NF.5%.50V.7.3X4.8X5.5M	
CT02	A1102-0293	2305-000412	C-FILM.MPEF	470NF.5%.63V.-.5MM.TP	
CT03	A1102-0293	2305-000412	C-FILM.MPEF	470NF.5%.63V.-.5MM.TP	
CT05	31607-401-680	2401-000302	C-AL	100UF.20%.25V.GP.6X11MM.5	
CT06	A1104-0368	2401-000287	C-AL	100UF.20%.16V.WT.6X11MM.5.	
CT07	31417-344-104	2201-000119	C-CERAMIC.DISC	100NF.+80-20%.50V.Y5V.8X5	
CT08	31417-344-104	2201-000119	C-CERAMIC.DISC	100NF.+80-20%.50V.Y5V.8X5	
CT09	31407-105-090	2201-000193	C-CERAMIC.DISC	10PF.0.3PF.50V.NPO.-.5.TP	
CT10	31407-057-151	2201-000245	C-CERAMIC.DISC	15PF.5%.50V.NPO.10X3.5.5.	
CT11	31417-104-400	2201-000292	C-CERAMIC.DISC	1NF.10%.50V.Y5P.5X4.5MM.T	
CT12	31417-344-104	2201-000119	C-CERAMIC.DISC	100NF.+80-20%.50V.Y5V.8X5	
CT13	31417-344-104	2201-000119	C-CERAMIC.DISC	100NF.+80-20%.50V.Y5V.8X5	
CT17	A1102-0293	2305-000412	C-FILM.MPEF	470NF.5%.63V.-.5MM.TP	
CT18	A1102-0293	2305-000412	C-FILM.MPEF	470NF.5%.63V.-.5MM.TP	
CT19	A1102-0293	2305-000412	C-FILM.MPEF	470NF.5%.63V.-.5MM.TP	
CT20	31407-105-660	2201-000144	C-CERAMIC.DISC	100PF.5%.50V.NPO.8.0X4.0.	
ICT01	B4004-0346	1204-000455	IC-DECODER	SAA5281 P/R.DIP.48P.-.PLA	
ICT02	32119-110-210	1001-000223	IC-VIDEO SWITCH	TEA5114A.-.DIP.16P.334MIL	
LT01	32427-904-700	2702-000146	INDUCTOR-RADIAL	3.9UH.10%.6X6.4MM	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
RT01	A1000-0554	2004-000971	R-METAL	470OHM.1%.1/8W.AA.TP.1.8X	
RT02	A1000-0554	2004-000971	R-METAL	470OHM.1%.1/8W.AA.TP.1.8X	
RT03	A1000-0554	2004-000971	R-METAL	470OHM.1%.1/8W.AA.TP.1.8X	
RT05	31018-177-121	2001-000325	R-CARBON	120OHM.5%.1/8W.AA.TP.1.8X	
RT10	31018-177-100	2001-000302	R-CARBON	10OHM.5%.1/8W.AA.TP.1.8X3	
RT11	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
RT13	31018-177-562	2004-001027	R-METAL	5.6KOHM.5%.1/8W.AA.TP.1.8	
RT14	31018-177-332	2001-000591	R-CARBON	3.3KOHM.5%.1/8W.AA.TP.1.8	
RT15	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
RT16	31018-177-273	2001-000563	R-CARBON	27KOHM.5%.1/8W.AA.TP.1.8X	
RT17	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
RT18	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
RT20	A1000-0554	2004-000971	R-METAL	470OHM.1%.1/8W.AA.TP.1.8X	
RT21	A1000-0554	2004-000971	R-METAL	470OHM.1%.1/8W.AA.TP.1.8X	
RT22	A1000-0554	2004-000971	R-METAL	470OHM.1%.1/8W.AA.TP.1.8X	
RT23	31018-177-472	2001-000734	R-CARBON	4.7KOHM.5%.1/8W.AA.TP.1.8	
RT24	31018-177-472	2001-000734	R-CARBON	4.7KOHM.5%.1/8W.AA.TP.1.8	
RT25	31018-177-472	2001-000734	R-CARBON	4.7KOHM.5%.1/8W.AA.TP.1.8	
RT26	31018-177-472	2001-000734	R-CARBON	4.7KOHM.5%.1/8W.AA.TP.1.8	
RT28	A1000-0554	2004-000971	R-METAL	470OHM.1%.1/8W.AA.TP.1.8X	
RT29	A1000-0554	2004-000971	R-METAL	470OHM.1%.1/8W.AA.TP.1.8X	
RT30	A1000-0554	2004-000971	R-METAL	470OHM.1%.1/8W.AA.TP.1.8X	
RT32	31018-177-751	2004-001229	R-METAL	750OHM.5%.1/8W.AA.TP.1.8X	
RT33	31018-177-751	2004-001229	R-METAL	750OHM.5%.1/8W.AA.TP.1.8X	
RT34	31018-177-751	2004-001229	R-METAL	750OHM.5%.1/8W.AA.TP.1.8X	
RT36	31018-177-221	2001-000515	R-CARBON	220OHM.5%.1/8W.AA.TP.1.8X	
TT01	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
XT01	34537-001-018	2801-000214	CRYSTAL-UNIT	27MHZ.40PPM.28-AAM.S.400H	

ASSY-PCB,SNAP IN

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA95-90010K	ASSY-PCB.SNAP IN	-.CS7255PF.SCT52A.PAL.-.-	
CC01	31607-401-460	2401-001495	C-AL	47UF.20%.16V.GP.5X11MM.5M	
CNB12	36434-0044-010	AA39-20095A	LEAD-CONNECTOR.ASSY	-.67096-009.-.9P.250.1007	
⚠ HC01		AA59-60003N	MODULE-REMOCON	-.0RC-30V2.38KHZ.940NM.ME	
RC01	31018-377-223	2001-001108	R-CARBON(S)	22KOHM.5%.1/2W.AA.TP.2.4X	
RC02	31018-377-220	2001-000020	R-CARBON(S)	22OHM.5%.1/2W.AA.TP.2.4X6	
SWC01	33609-101-003	3404-000176	SWITCH-TACT	12V.50MA.90-150GF.6X6MM.S	
SWC02	33609-101-003	3404-000176	SWITCH-TACT	12V.50MA.90-150GF.6X6MM.S	
SWC03	33609-101-003	3404-000176	SWITCH-TACT	12V.50MA.90-150GF.6X6MM.S	
SWC04	33609-101-003	3404-000176	SWITCH-TACT	12V.50MA.90-150GF.6X6MM.S	
SWC05	33609-101-003	3404-000176	SWITCH-TACT	12V.50MA.90-150GF.6X6MM.S	
SWC06	33609-101-003	3404-000176	SWITCH-TACT	12V.50MA.90-150GF.6X6MM.S	
SWC07	33609-101-003	3404-000176	SWITCH-TACT	12V.50MA.90-150GF.6X6MM.S	

ASSY-DRAWER

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA91-20052B	ASSY-DRAWER	-.-.SCT52A L/GRY.7255	

ASSY-POWER S/W

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA95-90010L	ASSY-POWER S/W	-.CS7255PF.SCT52A.PAL.-.-	
CNP12	33058-313-012	AA39-20052A	LEAD-CONNECTOR.ASSY	-.YBNH025-04.YSH025-04.4P	
D801M	A1330-0063	1405-000152	VARISTOR	560V.2500A.14X8.5MM.TP	
⚠ DP02	3H77-00001-070	AA96-30001B	ASSY-LED.GUIDE	-.AA61-50055A.DL-G5RGA.-	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
F8011	33167-001-001	3602-000114	FUSE-HOLDER	-.-.30MOHM	
F8012	33167-001-001	3602-000114	FUSE-HOLDER	-.-.30MOHM	
F802M	34709-085-080	3601-000279	FUSE-FERRULE	250V.4A.SLOW BLOW.GLASS.5	
FA803M	36434-0165-020	AA39-20176A	LEAD-CONNECTOR.ASSY	-.YFH800-03.S.3(2)P.200.1	
R801M	31028-378-335	2002-000328	R-COMPOSITION	3.3MOHM.10%.1/2W.AA.TP.3.	
RP01	31018-377-271	2001-001114	R-CARBON(S)	270OHM.5%.1/2W.AA.TP.2.4X	
RP02	31018-377-271	2001-001114	R-CARBON(S)	270OHM.5%.1/2W.AA.TP.2.4X	
SWP02	A3002-0014	3403-000179	SWITCH-PUSH	250V.5A.DPST.-	

ASSY-A/V SIDE

*		AA95-90010M	ASSY-A/V SIDE	-.CS7255PF.SCT52A.SUPER J	
C701	31607-401-680	2401-000302	C-AL	100UF.20%.25V.GP.6X11MM.5	
C702	31607-401-680	2401-000302	C-AL	100UF.20%.25V.GP.6X11MM.5	
C703	31607-401-680	2401-000302	C-AL	100UF.20%.25V.GP.6X11MM.5	
C704	31607-401-680	2401-000302	C-AL	100UF.20%.25V.GP.6X11MM.5	
C708	31417-104-250	2201-000558	C-CERAMIC.DISC	470PF.10%.50V.Y5P.4X3.5.5	
C709	31417-104-250	2201-000558	C-CERAMIC.DISC	470PF.10%.50V.Y5P.4X3.5.5	
C710	31407-105-660	2201-000144	C-CERAMIC.DISC	100PF.5%.50V.NPO.8.0X4.0.	
C711	31407-105-660	2201-000144	C-CERAMIC.DISC	100PF.5%.50V.NPO.8.0X4.0.	
CN701	33054-833-025	AA39-20009G	LEAD-CONNECTOR.ASSY	-.YFH800-01.-.1P.700.1617	
CN703	36434-0089-000	AA39-20112A	LEAD-CONNECTOR.ASSY	-.YBNH025-09.67096-009.9P	
CN805	36434-0010-030	AA39-20070C	LEAD-CONNECTOR.ASSY	-.YBNH025-07.67096-007.7P	
CNS02		AA39-20499F	LEAD CONNECTOR-ASSY	-.YBNH025-04.SMP025-04.4P	
JK01		3722-001043	JACK-RCA	1P.3.4MM.#16-22.AU	
JK02		3722-001042	JACK-RCA	1P.3.4MM.#16-22.AU	
JK03		3722-001041	JACK-RCA	1P.3.4MM.#16-22.AU	
JK04	B3045-0032	3722-000544	JACK-VHS	12P.11.5MM.AG.BLK.N	
JKH01	33339-521-070	3722-000143	JACK-PHONE	1P.3.4MM.MBAG.BLACK.-	
L701	32427-904-919	2701-000101	INDUCTOR-AXIAL	1.2UH.10%.2.5X3.4MM	
L702	32427-904-919	2701-000101	INDUCTOR-AXIAL	1.2UH.10%.2.5X3.4MM	
R701	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R702	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R703	31018-177-750	2004-001240	R-METAL	75OHM.5%.1/8W.AA.TP.1.8X3	
R704	31018-177-750	2004-001240	R-METAL	75OHM.5%.1/8W.AA.TP.1.8X3	
R705	31018-177-750	2004-001240	R-METAL	75OHM.5%.1/8W.AA.TP.1.8X3	
RA33	31018-377-102	2001-001088	R-CARBON(S)	1KOHM.5%.1/2W.AA.TP.2.4X6	
RA34	31018-377-102	2001-001088	R-CARBON(S)	1KOHM.5%.1/2W.AA.TP.2.4X6	
		AA61-20205A	HOLDER-AV.JACK	-.HIPS.HB.BLK.-.2956	
		AA64-60355E	INLAY-AV	-.PS.TO.3.-.BLK.SCT52A EL	

ASSY-PCB,A/V SWITCH

*		AA95-90010N	ASSY-PCB.A/V SWITCH	-.CS7255PF.SCT52A.CS.-.-	
AV701	A3040-0261	3722-000508	JACK-RCA	9P.3.2MM.-.SN	
AV702	A3040-0194	3722-000498	JACK-SCART	21P.-.-.SN	
AV703	B3045-0032	3722-000544	JACK-VHS	12P.11.5MM.AG.BLK.N	
C701	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C702	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C703	31417-104-250	2201-000558	C-CERAMIC.DISC	470PF.10%.50V.Y5P.4X3.5.5	
C704	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C705	31417-104-050	2201-000138	C-CERAMIC.DISC	100PF.10%.50V.Y5P.4.0X4.0	
C706	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C707	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C708	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C709	31417-104-250	2201-000558	C-CERAMIC.DISC	470PF.10%.50V.Y5P.4X3.5.5	
C710	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C711	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C712	31607-401-840	2401-000240	C-AL	100UF.20%.10V.GP.6X11MM.5	
C713	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C714	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C715	31417-104-250	2201-000558	C-CERAMIC.DISC	470PF.10%.50V.Y5P.4X3.5.5	
C716	31417-104-250	2201-000558	C-CERAMIC.DISC	470PF.10%.50V.Y5P.4X3.5.5	
C717	31417-104-050	2201-000138	C-CERAMIC.DISC	100PF.10%.50V.Y5P.4.0X4.0	
C718	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C719	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C720	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C722	31417-104-050	2201-000138	C-CERAMIC.DISC	100PF.10%.50V.Y5P.4.0X4.0	
C723	31417-104-250	2201-000558	C-CERAMIC.DISC	470PF.10%.50V.Y5P.4X3.5.5	
C724	31417-104-250	2201-000558	C-CERAMIC.DISC	470PF.10%.50V.Y5P.4X3.5.5	
C725	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C726	31407-057-270	2201-000423	C-CERAMIC.DISC	27PF.5%.50V.NPO.5.0X3.0.2	
C727	31407-057-270	2201-000423	C-CERAMIC.DISC	27PF.5%.50V.NPO.5.0X3.0.2	
C728	31417-104-250	2201-000558	C-CERAMIC.DISC	470PF.10%.50V.Y5P.4X3.5.5	
C729	31417-104-250	2201-000558	C-CERAMIC.DISC	470PF.10%.50V.Y5P.4X3.5.5	
C730	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C731	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C732	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C733	31407-057-270	2201-000423	C-CERAMIC.DISC	27PF.5%.50V.NPO.5.0X3.0.2	
C734	31407-017-270	2201-000426	C-CERAMIC.DISC	27PF.5%.50V.SL.4X3.5.5.TP	
C735	31407-017-270	2201-000426	C-CERAMIC.DISC	27PF.5%.50V.SL.4X3.5.5.TP	
C736	31407-017-270	2201-000426	C-CERAMIC.DISC	27PF.5%.50V.SL.4X3.5.5.TP	
C737	31417-104-050	2201-000138	C-CERAMIC.DISC	100PF.10%.50V.Y5P.4.0X4.0	
C738	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C742	31417-104-250	2201-000558	C-CERAMIC.DISC	470PF.10%.50V.Y5P.4X3.5.5	
C743	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C744	31417-104-050	2201-000138	C-CERAMIC.DISC	100PF.10%.50V.Y5P.4.0X4.0	
C745	31417-104-050	2201-000138	C-CERAMIC.DISC	100PF.10%.50V.Y5P.4.0X4.0	
C747	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C748	31417-109-140	2201-000982	C-CERAMIC.DISC	10NF.+80-20%.50V.Y5V.10X4	
C749	A1104-0096	2401-000272	C-AL	100UF.20%.16V.GP.6.3X7MM.	
C750	A1104-0666	2401-002299	C-AL	4.7UF.20%.50V.GP.5X7MM.5M	
C751	A1104-0666	2401-002299	C-AL	4.7UF.20%.50V.GP.5X7MM.5M	
C754	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C755	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C756	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C757	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C758	31607-401-840	2401-000240	C-AL	100UF.20%.10V.GP.6X11MM.5	
C759	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C760	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C762	A1104-0494	2401-000455	C-AL	10UF.20%.35V.GP.4X7MM.5MM	
C763	31417-109-140	2201-000982	C-CERAMIC.DISC	10NF.+80-20%.50V.Y5V.10X4	
C764	A1104-0096	2401-000272	C-AL	100UF.20%.16V.GP.6.3X7MM.	
C765	A1104-0096	2401-000272	C-AL	100UF.20%.16V.GP.6.3X7MM.	
C766	31417-109-140	2201-000982	C-CERAMIC.DISC	10NF.+80-20%.50V.Y5V.10X4	
CN701		3711-003122	CONNECTOR-HEADER	BOX.20P.2R.2.54MM.ANGLE.S	
CN702		3711-003122	CONNECTOR-HEADER	BOX.20P.2R.2.54MM.ANGLE.S	
D701	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D702	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D703	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D704	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D705	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
D706	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D707	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D708	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D709	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D710	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D711	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D712	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
DZ701	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ702	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ703	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ704	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ705	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ706	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ707	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ708	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ709	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ710	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ712	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ713	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ714	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ715	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ716	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ717	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ718	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ719	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ720	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ721	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ722	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ723	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ724	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
DZ725	32167-406-250	0403-000654	DIODE-ZENER	MTZ12B.12V.11.44-12.03V.5	
IC701	B4004-0149	0801-000961	IC-CMOS LOGIC	4053B.MUTIPLEXER.DIP.16P.	
IC702	B4004-0149	0801-000961	IC-CMOS LOGIC	4053B.MUTIPLEXER.DIP.16P.	
IC703	A4012-0154	1001-000217	IC-AUDIO SWITCH	KA2192B.4-INPUT.DIP.30P.4	
IC704	A4012-0154	1001-000217	IC-AUDIO SWITCH	KA2192B.4-INPUT.DIP.30P.4	
L701	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
L702	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
L703	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
L704	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
L705	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
L706	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
L707	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
L708	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
L709	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
L710	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH.10%.2.5X3.4MM	
Q701	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q702	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q703	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q704	A4060-0035	0504-000116	TR-DIGITAL	KSR1001.NPN.300MW.4.7K-4.	
Q705	A4060-0035	0504-000116	TR-DIGITAL	KSR1001.NPN.300MW.4.7K-4.	
Q706	A4060-0035	0504-000116	TR-DIGITAL	KSR1001.NPN.300MW.4.7K-4.	
Q707	A4060-0035	0504-000116	TR-DIGITAL	KSR1001.NPN.300MW.4.7K-4.	
Q708	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q709	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q710	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q711	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q712	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
Q713	32137-301-720	0501-000389	TR-SMALL SIGNAL	KSC815-Y.NPN.60V.45V.200M	
Q714	A4060-0035	0504-000116	TR-DIGITAL	KSR1001.NPN.300MW.4.7K-4.	
Q715	A4060-0035	0504-000116	TR-DIGITAL	KSR1001.NPN.300MW.4.7K-4.	
Q716	A4060-0035	0504-000116	TR-DIGITAL	KSR1001.NPN.300MW.4.7K-4.	
Q717	A4060-0035	0504-000116	TR-DIGITAL	KSR1001.NPN.300MW.4.7K-4.	
R701	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
R702	31018-177-333	2001-000660	R-CARBON	33KOHM.5%.1/8W.AA.TP.1.8X	
R703	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R704	31018-177-331	2001-000003	R-CARBON	330OHM.5%.1/8W.AA.TP.1.8X	
R705	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
R706	31018-177-333	2001-000660	R-CARBON	33KOHM.5%.1/8W.AA.TP.1.8X	
R707	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R708	31018-177-331	2001-000003	R-CARBON	330OHM.5%.1/8W.AA.TP.1.8X	
R709	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
R710	31018-177-121	2001-000325	R-CARBON	120OHM.5%.1/8W.AA.TP.1.8X	
R711	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R712	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
R713	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R714	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
R715	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
R716	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R717	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R718	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R719	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R720	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
R721	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
R722	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R723	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R724	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R725	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R726	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R727	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R728	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R729	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R730	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R731	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R732	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R733	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R734	31018-177-472	2001-000734	R-CARBON	4.7KOHM.5%.1/8W.AA.TP.1.8	
R735	31018-177-472	2001-000734	R-CARBON	4.7KOHM.5%.1/8W.AA.TP.1.8	
R736	A1000-0585	2001-001066	R-CARBON(S)	110OHM.5%.1/2W.AB.TP.2.4X	
R737	31018-177-100	2001-000302	R-CARBON	10OHM.5%.1/8W.AA.TP.1.8X3	
R738	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R739	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R740	31018-177-100	2001-000302	R-CARBON	10OHM.5%.1/8W.AA.TP.1.8X3	
R742	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R743	31018-177-223	2001-000522	R-CARBON	22KOHM.5%.1/8W.AA.TP.1.8X	
R744	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R745	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R746	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R747	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R749	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R750	31018-177-100	2001-000302	R-CARBON	10OHM.5%.1/8W.AA.TP.1.8X3	
R751	31018-177-750	2004-001240	R-METAL	75OHM.5%.1/8W.AA.TP.1.8X3	
R752	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R753	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R754	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
R756	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R757	31018-177-100	2001-000302	R-CARBON	10OHM.5%.1/8W.AA.TP.1.8X3	
R758	31018-177-750	2004-001240	R-METAL	75OHM.5%.1/8W.AA.TP.1.8X3	
R759	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R760	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R761	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R762	31018-177-104	2001-000273	R-CARBON	100KOHM.5%.1/8W.AA.TP.1.8	
R763	31018-177-750	2004-001240	R-METAL	75OHM.5%.1/8W.AA.TP.1.8X3	
R764	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R765	31018-177-750	2004-001240	R-METAL	75OHM.5%.1/8W.AA.TP.1.8X3	
R766	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
R767	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
R768	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R769	31018-177-912	2004-001995	R-METAL	9.1KOHM.5%.1/8W.AA.TP.1.8	
R771	31018-177-100	2001-000302	R-CARBON	10OHM.5%.1/8W.AA.TP.1.8X3	
R772	31018-177-332	2001-000591	R-CARBON	3.3KOHM.5%.1/8W.AA.TP.1.8	
R773	31018-177-822	2004-001258	R-METAL	8.2KOHM.5%.1/8W.AA.TP.1.8	
R774	31018-177-100	2001-000302	R-CARBON	10OHM.5%.1/8W.AA.TP.1.8X3	
R775	31018-177-332	2001-000591	R-CARBON	3.3KOHM.5%.1/8W.AA.TP.1.8	
R776	31018-177-822	2004-001258	R-METAL	8.2KOHM.5%.1/8W.AA.TP.1.8	
R777	31018-177-100	2001-000302	R-CARBON	10OHM.5%.1/8W.AA.TP.1.8X3	
R778	31018-177-100	2001-000302	R-CARBON	10OHM.5%.1/8W.AA.TP.1.8X3	
R779	A1000-0585	2001-001066	R-CARBON(S)	110OHM.5%.1/2W.AB.TP.2.4X	
R780	31018-177-100	2001-000302	R-CARBON	10OHM.5%.1/8W.AA.TP.1.8X3	
R781	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R782	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R783	31018-177-152	2001-000241	R-CARBON	1.5KOHM.5%.1/8W.AA.TP.1.8	
R784	31018-377-101	2001-000028	R-CARBON(S)	100OHM.5%.1/2W.AA.TP.2.4X	
R785	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R786	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R787	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R788	31018-177-103	2001-000290	R-CARBON	10KOHM.5%.1/8W.AA.TP.1.8X	
R789	31018-177-331	2001-000003	R-CARBON	330OHM.5%.1/8W.AA.TP.1.8X	
R790	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R791	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R792	31018-177-331	2001-000003	R-CARBON	330OHM.5%.1/8W.AA.TP.1.8X	
R793	31018-177-102	2001-000429	R-CARBON	1KOHM.5%.1/8W.AA.TP.1.8X3	
R794	31018-177-101	2001-000281	R-CARBON	100OHM.5%.1/8W.AA.TP.1.8X	
R795	31018-377-101	2001-000028	R-CARBON(S)	100OHM.5%.1/2W.AA.TP.2.4X	
R796	31018-177-100	2001-000302	R-CARBON	10OHM.5%.1/8W.AA.TP.1.8X3	
R798	31018-377-680	2001-000117	R-CARBON(S)	68OHM.5%.1/2W.AA.TP.2.4X6	
R799	31018-177-100	2001-000302	R-CARBON	10OHM.5%.1/8W.AA.TP.1.8X3	
RW701		B1018-0050	R-NETWORK	RN 1/8 CA 5P 75RX3/1K-J T	
RW702		B1018-0051	R-NETWORK	RN 1/8 CB 6P 33K/24K/75RX	

ASSY-PCB,PIP

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
*		AA95-90010S	ASSY-PCB.PIP	-.CS7255PF.SCT52A.CS.-.-	
CNP01	33124-210-012	3711-002709	CONNECTOR-HEADER	NOWALL.12P.1R.2.5MM.ANGLE	
CNP03	33124-210-012	3711-002709	CONNECTOR-HEADER	NOWALL.12P.1R.2.5MM.ANGLE	
CP101	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP102	A1104-0052	2401-001937	C-AL	22UF.20%.16V.GP.5X5MM.5MM	
CP103	A1100-0059	2203-000429	C-CERAMIC.CHIP	18PF.5%.50V.NPO.2012.-.TP	
CP104	31418-367-824	2203-000192	C-CERAMIC.CHIP	100NF.+80-20%.50V.Y5V.201	
CP105	A1100-0685	2203-000717	C-CERAMIC.CHIP	3.3NF.10%.50V.X7R.3216.-.	
CP106	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
CP107	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP108	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP109	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CP110	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP111	31418-267-332	2203-002232	C-CERAMIC.CHIP	3.3NF.20%.50V.X7R.2012.-.	
CP112	31607-402-220	2401-000660	C-AL	2.2UF.20%.50V.GP.5X11.5.T	
CP114	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP115	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP116	A1100-0143	2203-000753	C-CERAMIC.CHIP	330NF.+80-20%.50V.Y5V.321	
CP117	31607-401-460	2401-001495	C-AL	47UF.20%.16V.GP.5X11MM.5M	
CP118	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP119	31407-063-809	2201-000692	C-CERAMIC.DISC	8PF.0.5PF.50V.U2J.-.5.TP	
CP120	31418-267-224	2203-000578	C-CERAMIC.CHIP	220NF.20%.50V.Y5V.3216.3.	
CP121	31607-402-220	2401-000660	C-AL	2.2UF.20%.50V.GP.5X11.5.T	
CP123	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
CP124	31607-402-220	2401-000660	C-AL	2.2UF.20%.50V.GP.5X11.5.T	
CP125	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
CP126	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CP127	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP129	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
CP130	A1100-0009	2203-000237	C-CERAMIC.CHIP	100PF.5%.50V.NPO.2012.2.0	
CP131	31407-063-809	2201-000692	C-CERAMIC.DISC	8PF.0.5PF.50V.U2J.-.5.TP	
CP132	A1100-0009	2203-000237	C-CERAMIC.CHIP	100PF.5%.50V.NPO.2012.2.0	
CP133	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP134	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CP135	31607-401-460	2401-001495	C-AL	47UF.20%.16V.GP.5X11MM.5M	
CP136	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
CP137	31408-267-471	2203-000937	C-CERAMIC.CHIP	470PF.10%.50V.NPO.2012.2. .	
CP142	31607-401-140	2401-000199	C-AL	1000UF.20%.6.3V.GP.10X12.	
CP143	31607-401-460	2401-001495	C-AL	47UF.20%.16V.GP.5X11MM.5M	
CP144	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP145	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP201	A1100-0678	2203-000325	C-CERAMIC.CHIP	12NF.10%.50V.X7R.3216.-.T	
CP203	31607-401-460	2401-001495	C-AL	47UF.20%.16V.GP.5X11MM.5M	
CP204	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP205	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CP206	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP207	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CP208	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP209	31607-402-210	2401-000603	C-AL	1UF.20%.50V.GP.5X11MM.5MM	
CP210	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CP211	31607-402-210	2401-000603	C-AL	1UF.20%.50V.GP.5X11MM.5MM	
CP213	31607-402-210	2401-000603	C-AL	1UF.20%.50V.GP.5X11MM.5MM	
CP214	31418-267-224	2203-000578	C-CERAMIC.CHIP	220NF.20%.50V.Y5V.3216.3.	
CP215	31607-402-210	2401-000603	C-AL	1UF.20%.50V.GP.5X11MM.5MM	
CP216	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP217	31418-267-224	2203-000578	C-CERAMIC.CHIP	220NF.20%.50V.Y5V.3216.3.	
CP218	A1100-0741	2203-001668	C-CERAMIC.CHIP	56NF.20%.50V.X7R.2012.-.T	
CP219	31418-267-222	2203-000492	C-CERAMIC.CHIP	2.2NF.10%.50V.X7R.2012.2.	
CP220	31418-267-224	2203-000578	C-CERAMIC.CHIP	220NF.20%.50V.Y5V.3216.3.	
CP221	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP301	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CP302	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP303	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CP304	31418-367-104	2203-000219	C-CERAMIC.CHIP	100NF.20%.50V.Y5V.3216.3.	
CP305	31408-267-150	2203-000379	C-CERAMIC.CHIP	15PF.10%.50V.NPO.2012.2.0	
CP306	31408-267-150	2203-000379	C-CERAMIC.CHIP	15PF.10%.50V.NPO.2012.2.0	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
DP101	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314,30V,100MA,150MW,-,	
DP103	32167-406-130	0403-000563	DIODE-ZENER	MTZ9.1B,9.1V,8.57-9.01V,5	
DP105	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314,30V,100MA,150MW,-,	
DP201	32167-441-002	0403-000662	DIODE-ZENER	MTZ3.0B,3.0V,3.01-3.22V,5	
ICP101	32119-110-091	1204-000530	IC-PAL/NTSC DECODER	TDA9160A,DIP,32P,400MIL,P	
ICP102	B4012-0468	1204-000560	IC-DEMODULATOR	TDA9815,DIP,32P,400MIL,PL	
ICP103		AA13-20004A	IC-HYBRID	-,PAP102,SIP,6P,PRE-AMP	
ICP105	B4012-0515	1204-000547	IC-PICTURE PROCESSOR	SDA9189X,SOP,32P,350MIL,P	
ICP201	B4012-0215	1002-000206	IC-A/D CONVERTER	SDA9187-2X,6BIT,SOP,28P,3	
LP102	A1132-0055	2701-000219	INDUCTOR-AXIAL	820NH,10%,2.5X3.4MM	
LP103	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH,10%,2.5X3.4MM	
LP104	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH,10%,2.5X3.4MM	
LP105	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH,10%,2.5X3.4MM	
LP201	32427-904-922	2701-000197	INDUCTOR-AXIAL	5.6UH,10%,2.5X3.4MM	
LP301	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH,10%,2.5X3.4MM	
QP101	32139-220-002	0501-000340	TR-SMALL SIGNAL	KSC1623,NPN,200MW,SOT-23,	
QP102	32139-220-002	0501-000340	TR-SMALL SIGNAL	KSC1623,NPN,200MW,SOT-23,	
QP104	32139-220-002	0501-000340	TR-SMALL SIGNAL	KSC1623,NPN,200MW,SOT-23,	
QP105	32139-220-002	0501-000340	TR-SMALL SIGNAL	KSC1623,NPN,200MW,SOT-23,	
QP106	32139-220-002	0501-000340	TR-SMALL SIGNAL	KSC1623,NPN,200MW,SOT-23,	
QP201	32139-220-002	0501-000340	TR-SMALL SIGNAL	KSC1623,NPN,200MW,SOT-23,	
QP202	32139-220-002	0501-000340	TR-SMALL SIGNAL	KSC1623,NPN,200MW,SOT-23,	
QP203	32137-220-003	0501-000280	TR-SMALL SIGNAL	KSA1182,PNP,150MW,SOT-23,	
QP204	32139-220-002	0501-000340	TR-SMALL SIGNAL	KSC1623,NPN,200MW,SOT-23,	
QP205	32139-220-002	0501-000340	TR-SMALL SIGNAL	KSC1623,NPN,200MW,SOT-23,	
QP206	32139-220-002	0501-000340	TR-SMALL SIGNAL	KSC1623,NPN,200MW,SOT-23,	
QP302	32139-220-002	0501-000340	TR-SMALL SIGNAL	KSC1623,NPN,200MW,SOT-23,	
QP303	32137-220-003	0501-000280	TR-SMALL SIGNAL	KSA1182,PNP,150MW,SOT-23,	
QP304	32137-220-003	0501-000280	TR-SMALL SIGNAL	KSA1182,PNP,150MW,SOT-23,	
QP305	32137-220-003	0501-000280	TR-SMALL SIGNAL	KSA1182,PNP,150MW,SOT-23,	
RC129	31099-077-223	2007-000586	R-CHIP	22KOHM,5%,1/10W,DA,TP,201	
RP101	31099-077-823	2007-001208	R-CHIP	82KOHM,5%,1/10W,DA,TP,201	
RP103	A1020-0023	2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,201	
RP104	31099-077-102	2007-000468	R-CHIP	1KOHM,5%,1/10W,DA,TP,2012	
RP105	31099-077-113	2007-000328	R-CHIP	11KOHM,5%,1/10W,DA,TP,201	
RP106	31099-077-333	2007-000774	R-CHIP	33KOHM,5%,1/10W,DA,TP,201	
RP107	31099-077-153	2007-000409	R-CHIP	15KOHM,5%,1/10W,DA,TP,201	
RP108	31099-077-222	2007-000493	R-CHIP	2.2KOHM,5%,1/10W,DA,TP,20	
RP109	31099-077-393	2007-000830	R-CHIP	39KOHM,5%,1/10W,DA,TP,201	
RP110	31099-077-103	2007-000300	R-CHIP	10KOHM,5%,1/10W,DA,TP,201	
RP111	31099-077-472	2007-000872	R-CHIP	4.7KOHM,5%,1/10W,DA,TP,20	
RP112	31099-077-471	2007-000931	R-CHIP	470OHM,5%,1/10W,DA,TP,201	
RP113	31099-077-333	2007-000774	R-CHIP	33KOHM,5%,1/10W,DA,TP,201	
RP114	A1020-0023	2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,201	
RP115	A1020-0023	2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,201	
RP116	31099-077-222	2007-000493	R-CHIP	2.2KOHM,5%,1/10W,DA,TP,20	
RP118	31018-377-680	2001-000117	R-CARBON(S)	68OHM,5%,1/2W,AA,TP,2.4X6	
RP119	31099-077-104	2007-000282	R-CHIP	100KOHM,5%,1/10W,DA,TP,20	
RP122	31099-077-103	2007-000300	R-CHIP	10KOHM,5%,1/10W,DA,TP,201	
RP123	31099-077-473	2007-000941	R-CHIP	47KOHM,5%,1/10W,DA,TP,201	
RP124	31099-077-473	2007-000941	R-CHIP	47KOHM,5%,1/10W,DA,TP,201	
RP125	31099-077-151	2007-000401	R-CHIP	150OHM,5%,1/10W,DA,TP,201	
RP126	B1054-0270	2103-000665	VR-SEMI	20KOHM,25%,1/5W,SIDE	
RP127	31099-077-561	2007-000030	R-CHIP	560OHM,5%,1/10W,DA,TP,201	
RP128	31099-077-473	2007-000941	R-CHIP	47KOHM,5%,1/10W,DA,TP,201	
RP130	31099-077-472	2007-000872	R-CHIP	4.7KOHM,5%,1/10W,DA,TP,20	
RP131	31099-077-223	2007-000586	R-CHIP	22KOHM,5%,1/10W,DA,TP,201	
RP132	31099-077-223	2007-000586	R-CHIP	22KOHM,5%,1/10W,DA,TP,201	
RP133	31099-077-472	2007-000872	R-CHIP	4.7KOHM,5%,1/10W,DA,TP,20	
RP135	31099-077-102	2007-000468	R-CHIP	1KOHM,5%,1/10W,DA,TP,2012	
RP136	31099-077-472	2007-000872	R-CHIP	4.7KOHM,5%,1/10W,DA,TP,20	
RP137	31099-077-563	2007-001039	R-CHIP	56KOHM,5%,1/10W,DA,TP,201	
RP138	31099-077-223	2007-000586	R-CHIP	22KOHM,5%,1/10W,DA,TP,201	
RP139	31099-077-223	2007-000586	R-CHIP	22KOHM,5%,1/10W,DA,TP,201	
RP140	31099-077-000	2007-000029	R-CHIP	0OHM,5%,1/10W,DA,TP,2012	
RP201	31099-077-563	2007-001039	R-CHIP	56KOHM,5%,1/10W,DA,TP,201	
RP202	31099-077-151	2007-000401	R-CHIP	150OHM,5%,1/10W,DA,TP,201	
RP203	A1020-0086	2007-000703	R-CHIP	3.6KOHM,5%,1/10W,DA,TP,20	
RP204	31099-077-220	2007-000593	R-CHIP	22OHM,5%,1/10W,DA,TP,2012	
RP205	31099-077-105	2007-000477	R-CHIP	1MOHM,5%,1/10W,DA,TP,2012	
RP206	31099-077-471	2007-000931	R-CHIP	470OHM,5%,1/10W,DA,TP,201	
RP207	31099-077-513	2007-001009	R-CHIP	51KOHM,5%,1/10W,DA,TP,201	
RP208	31099-077-333	2007-000774	R-CHIP	33KOHM,5%,1/10W,DA,TP,201	
RP209	31099-077-151	2007-000401	R-CHIP	150OHM,5%,1/10W,DA,TP,201	
RP210	31099-077-122	2007-000221	R-CHIP	1.2KOHM,5%,1/10W,DA,TP,20	
RP211	31099-077-511	2007-001001	R-CHIP	510OHM,5%,1/10W,DA,TP,201	
RP212	31099-077-471	2007-000931	R-CHIP	470OHM,5%,1/10W,DA,TP,201	
RP213	31099-077-472	2007-000872	R-CHIP	4.7KOHM,5%,1/10W,DA,TP,20	
RP215	31099-077-472	2007-000872	R-CHIP	4.7KOHM,5%,1/10W,DA,TP,20	
RP216	31099-077-472	2007-000872	R-CHIP	4.7KOHM,5%,1/10W,DA,TP,20	
RP217	31099-077-153	2007-000409	R-CHIP	15KOHM,5%,1/10W,DA,TP,201	
RP301	A1020-0023	2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,201	
RP303	31099-077-102	2007-000468	R-CHIP	1KOHM,5%,1/10W,DA,TP,2012	
RP304	A1020-0023	2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,201	
RP307	31099-077-272	2007-000518	R-CHIP	2.7KOHM,5%,1/10W,DA,TP,20	
RP308	31099-077-151	2007-000401	R-CHIP	150OHM,5%,1/10W,DA,TP,201	
RP309	31099-077-471	2007-000931	R-CHIP	470OHM,5%,1/10W,DA,TP,201	
RP310	31099-077-471	2007-000931	R-CHIP	470OHM,5%,1/10W,DA,TP,201	
RP311	31099-077-471	2007-000931	R-CHIP	470OHM,5%,1/10W,DA,TP,201	
RP312	31099-077-103	2007-000300	R-CHIP	10KOHM,5%,1/10W,DA,TP,201	
RP313	31099-077-751	2007-001155	R-CHIP	750OHM,5%,1/10W,DA,TP,201	
RP314	31099-077-751	2007-001155	R-CHIP	750OHM,5%,1/10W,DA,TP,201	
RP315	31099-077-751	2007-001155	R-CHIP	750OHM,5%,1/10W,DA,TP,201	
RP316	31018-377-479	2001-001146	R-CARBON(S)	4.7OHM,5%,1/2W,AA,TP,2.4X	
RP317	31018-377-479	2001-001146	R-CARBON(S)	4.7OHM,5%,1/2W,AA,TP,2.4X	
TP101	A1190-0014	AA26-10004E	TRANS-IF	-,7MG,VIF,-,7MM,-,116.7MH	
XP101	B1280-0089	2801-000235	CRYSTAL-UNIT	3.579545MHZ,40PPM,28-AAM,	
XP102	B1280-0196	2801-000274	CRYSTAL-UNIT	4.433619MHZ,30PPM,28-AAM,	
XP301	B1283-0052	2802-000121	RESONATOR-CERAMIC	20.48MHZ,0.5%,TP,10.0X5.0	
ZP102	B1245-0044	2904-000253	FILTER-SAW AV	33.9MHZ,DIP10P,ST	

ASSY-PCB,AUDIO

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
*		AA95-90012Y	ASSY-PCB,AUDIO	-,CS7255PF,SCT52A,W/O NIC	
C653	31607-401-430	2401-000440	C-AL	10UF,20%,25V,GP,5X11MM,5M	
C654	31607-401-430	2401-000440	C-AL	10UF,20%,25V,GP,5X11MM,5M	
C655	31507-127-021	2301-000320	C-FILM,PEF	82NF,5%,50V,8.0X4.5X8.5MM	
C656	31418-267-681	2203-001122	C-CERAMIC,CHIP	680PF,10%,50V,NP0,2012,2.	
C657	31607-402-070	2401-000947	C-AL	22UF,20%,35V,GP,5X11MM,-,	
C658	31607-402-070	2401-000947	C-AL	22UF,20%,35V,GP,5X11MM,-,	
C659	31418-367-824	2203-000192	C-CERAMIC,CHIP	100NF,+80-20%,50V,Y5V,201	
C660	31418-367-824	2203-000192	C-CERAMIC,CHIP	100NF,+80-20%,50V,Y5V,201	
C661	31418-267-682	2203-001104	C-CERAMIC,CHIP	6.8NF,10%,50V,X7R,2012,2.	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C662	31418-267-102	2203-000441	C-CERAMIC.CHIP	1NF.10%.50V.X7R.2012.2.0M	
C663	31418-267-223	2203-000607	C-CERAMIC.CHIP	22NF.10%.50V.X7R.2012.2.0	
C664	31418-267-223	2203-000607	C-CERAMIC.CHIP	22NF.10%.50V.X7R.2012.2.0	
C665	31418-267-222	2203-000492	C-CERAMIC.CHIP	2.2NF.10%.50V.X7R.2012.2.	
C666	31418-367-824	2203-000192	C-CERAMIC.CHIP	100NF.+80-20%.50V.Y5V.201	
C669	31418-367-824	2203-000192	C-CERAMIC.CHIP	100NF.+80-20%.50V.Y5V.201	
C670	31607-401-460	2401-001495	C-AL	47UF.20%.16V.GP.5X11MM.5M	
C671	31607-402-230	2401-001026	C-AL	3.3UF.20%.50V.GP.5X11MM.5	
C672	31607-402-230	2401-001026	C-AL	3.3UF.20%.50V.GP.5X11MM.5	
C673	31607-401-430	2401-000440	C-AL	10UF.20%.25V.GP.5X11MM.5M	
C674	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
C675	31418-367-824	2203-000192	C-CERAMIC.CHIP	100NF.+80-20%.50V.Y5V.201	
C676	31417-104-280	2201-000452	C-CERAMIC.DISC	3.9NF.10%.50V.Y5P.8X4.5.T	
C678	31607-402-220	2401-000660	C-AL	2.2UF.20%.50V.GP.5X11.5.T	
C679	31607-402-220	2401-000660	C-AL	2.2UF.20%.50V.GP.5X11.5.T	
C680	31418-267-472	2203-000889	C-CERAMIC.CHIP	4.7NF.10%.50V.X7R.2012.2.	
C681	31607-401-290	2401-000776	C-AL	220UF.20%.10V.GP.6X11MM.5	
C682	31418-267-472	2203-000889	C-CERAMIC.CHIP	4.7NF.10%.50V.X7R.2012.2.	
C684	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7P.2012.2.0	
C685	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
C686	31607-401-840	2401-000240	C-AL	100UF.20%.10V.GP.6X11MM.5	
C687	31418-367-824	2203-000192	C-CERAMIC.CHIP	100NF.+80-20%.50V.Y5V.201	
C688	31607-401-430	2401-000440	C-AL	10UF.20%.25V.GP.5X11MM.5M	
C689	31607-401-430	2401-000440	C-AL	10UF.20%.25V.GP.5X11MM.5M	
C691	31418-267-682	2203-001104	C-CERAMIC.CHIP	6.8NF.10%.50V.X7R.2012.2.	
CN601	33124-210-012	3711-002709	CONNECTOR-HEADER	NOWALL.12P.1R.2.5MM.ANGLE	
CN602	33124-210-012	3711-002709	CONNECTOR-HEADER	NOWALL.12P.1R.2.5MM.ANGLE	
IC602	B4012-0286	0904-000004	IC-PERIPHERAL	1853.-.DIP.30P.-.-.ST.-.P	
IC603	B4012-0149	1204-000515	IC-SOUND PROCESSOR	TDA9840/V2.DIP.20P.324MIL	
L651	32427-904-770	2702-000131	INDUCTOR-RADIAL	2.2MH.5%.6.2X7.4MM	
R650	31099-077-472	2007-000872	R-CHIP	4.7KOHM.5%.1/10W.DA.TP.20	
R651	31099-077-103	2007-000300	R-CHIP	10KOHM.5%.1/10W.DA.TP.201	
R652	31099-077-103	2007-000300	R-CHIP	10KOHM.5%.1/10W.DA.TP.201	
R653	31099-077-752	2007-001141	R-CHIP	7.5KOHM.5%.1/10W.DA.TP.20	
R654	31099-077-752	2007-001141	R-CHIP	7.5KOHM.5%.1/10W.DA.TP.20	
R657	A1020-0023	2007-000290	R-CHIP	100OHM.5%.1/10W.DA.TP.201	
R658	A1020-0023	2007-000290	R-CHIP	100OHM.5%.1/10W.DA.TP.201	
R659	31099-077-392	2007-000710	R-CHIP	3.9KOHM.5%.1/10W.DA.TP.20	
R661	A1020-0023	2007-000290	R-CHIP	100OHM.5%.1/10W.DA.TP.201	
R662	31099-077-752	2007-001141	R-CHIP	7.5KOHM.5%.1/10W.DA.TP.20	
R664	A1020-0023	2007-000290	R-CHIP	100OHM.5%.1/10W.DA.TP.201	
R665	31099-077-824	2007-001195	R-CHIP	820KOHM.5%.1/10W.DA.TP.20	
R666	31099-077-472	2007-000872	R-CHIP	4.7KOHM.5%.1/10W.DA.TP.20	
R667	31099-077-472	2007-000872	R-CHIP	4.7KOHM.5%.1/10W.DA.TP.20	
X651	34537-001-000	2801-000125	CRYSTAL-UNIT	10MHZ.20PPM.28-AAM.32PF.3	

ASSY-PCB,IF

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
•		AA95-90012Z	ASSY-PCB.IF	-.CS7255PF.SCT52A.W/O CZE	
C112	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
C113	31607-402-070	2401-000947	C-AL	22UF.20%.35V.GP.5X11MM.-.	
C114	31607-401-430	2401-000440	C-AL	10UF.20%.25V.GP.5X11MM.5M	
C115	31418-367-824	2203-000192	C-CERAMIC.CHIP	100NF.+80-20%.50V.Y5V.201	
C116	31408-267-471	2203-000937	C-CERAMIC.CHIP	470PF.10%.50V.NPO.2012.2.	
C118	A1100-1007	2203-000561	C-CERAMIC.CHIP	220NF.+80-20%.25V.Y5V.201	
C122	31407-063-809	2201-000692	C-CERAMIC.DISC	8PF.0.5PF.50V.U2J.-.5.TP	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C123	31418-267-102	2203-000441	C-CERAMIC.CHIP	1NF.10%.50V.X7R.2012.2.0M	
C124	31407-063-809	2201-000692	C-CERAMIC.DISC	8PF.0.5PF.50V.U2J.-.5.TP	
C125	31607-402-220	2401-000660	C-AL	2.2UF.20%.50V.GP.5X11.5.T	
C126	31607-402-160	2401-001082	C-AL	330NF.20%.50V.GP.5X11MM.5	
C127	31607-402-220	2401-000660	C-AL	2.2UF.20%.50V.GP.5X11.5.T	
C128	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
C161	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
C164	31607-402-070	2401-000947	C-AL	22UF.20%.35V.GP.5X11MM.-.	
C165	31607-402-070	2401-000947	C-AL	22UF.20%.35V.GP.5X11MM.-.	
C166	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
C167	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
C181	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
C182	31418-367-824	2203-000192	C-CERAMIC.CHIP	100NF.+80-20%.50V.Y5V.201	
C183	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
C184	31418-367-824	2203-000192	C-CERAMIC.CHIP	100NF.+80-20%.50V.Y5V.201	
C185	31418-367-824	2203-000192	C-CERAMIC.CHIP	100NF.+80-20%.50V.Y5V.201	
C186	31607-401-470	2401-000269	C-AL	100UF.20%.16V.GP.6X11MM.5	
CL111	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
CL112	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
CN111	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
CN164	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
CN165	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
CN166	31418-267-103	2203-000258	C-CERAMIC.CHIP	10NF.10%.50V.X7R.2012.2.0	
CN101	33124-210-012	3711-002709	CONNECTOR-HEADER	NOWALL.12P.1R.2.5MM.ANGLE	
CN102	33124-210-012	3711-002709	CONNECTOR-HEADER	NOWALL.12P.1R.2.5MM.ANGLE	
D112	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
D113	32167-406-130	0403-000563	DIODE-ZENER	MTZ9.1B.9.1V.8.57-9.01V.5	
D128	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
D161	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
D164	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
D165	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
DI161	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
DI162	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
DK161	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
DK162	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
DK163	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
DK164	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
DN111	32167-406-480	0401-000005	DIODE-SWITCHING	1N4148.100V.200MA.500MW.4	
DN112	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
DN113	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
DN161	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
DN162	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
DN163	B4100-0044	0401-000160	DIODE-SWITCHING	1SS314.30V.100MA.150MW.-.	
IC111	B4012-0468	1204-000560	IC-DEMODULATOR	TDA9815.DIP.32P.400MIL.PL	
IC113	A4010-0073	AA13-20003F	IC-HYBRID	-.PAP101.SIP.5P.PREAMP	
JL111	31099-077-000	2007-000029	R-CHIP	0OHM.5%.1/10W.DA.TP.2012	
L111	32427-904-944	2701-000202	INDUCTOR-AXIAL	560NH.10%.2.5X3.4MM	
L112	A1190-0014	AA26-10004E	TRANS-IF	-.7MG.VIF.-.7MM.-.116.7MH	
L113	32427-904-950	2701-000299	INDUCTOR-AXIAL	13UH.10%.2.5X3.4MM	
LN113	A1132-0040	2701-000136	INDUCTOR-AXIAL	18UH.10%.2.5X3.4MM	
Q112	A4050-0218	0501-000727	TR-SMALL SIGNAL	BC848C.NPN.310MW.SOT-23.T	
Q113	A4050-0217	0501-000728	TR-SMALL SIGNAL	BC858C.PNP.310MW.SOT-23.T	
Q161	A4050-0218	0501-000727	TR-SMALL SIGNAL	BC848C.NPN.310MW.SOT-23.T	
QI161	A4050-0218	0501-000727	TR-SMALL SIGNAL	BC848C.NPN.310MW.SOT-23.T	
QK161	A4050-0218	0501-000727	TR-SMALL SIGNAL	BC848C.NPN.310MW.SOT-23.T	
QN111	A4050-0218	0501-000727	TR-SMALL SIGNAL	BC848C.NPN.310MW.SOT-23.T	
QN112	A4050-0218	0501-000727	TR-SMALL SIGNAL	BC848C.NPN.310MW.SOT-23.T	

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
QN113	A4050-0218	0501-000727	TR-SMALL SIGNAL	BC848C.NPN.310MW.SOT-23.T	
QN114	A4050-0218	0501-000727	TR-SMALL SIGNAL	BC848C.NPN.310MW.SOT-23.T	
QN161	A4050-0218	0501-000727	TR-SMALL SIGNAL	BC848C.NPN.310MW.SOT-23.T	
QN162	A4050-0218	0501-000727	TR-SMALL SIGNAL	BC848C.NPN.310MW.SOT-23.T	
QN163	A4050-0218	0501-000727	TR-SMALL SIGNAL	BC848C.NPN.310MW.SOT-23.T	
QN164	A4050-0218	0501-000727	TR-SMALL SIGNAL	BC848C.NPN.310MW.SOT-23.T	
R113	31099-077-333	2007-000774	R-CHIP	33KOHM.5%.1/10W.DA.TP.201	
R114	31099-077-333	2007-000774	R-CHIP	33KOHM.5%.1/10W.DA.TP.201	
R115	31099-077-103	2007-000300	R-CHIP	10KOHM.5%.1/10W.DA.TP.201	
R116	31018-377-680	2001-000117	R-CARBON(S)	680HM.5%.1/2W.AA.TP.2.4X6	
R117	31099-077-000	2007-000029	R-CHIP	00HM.5%.1/10W.DA.TP.2012	
R118	31099-077-102	2007-000468	R-CHIP	1KOHM.5%.1/10W.DA.TP.2012	
R119	31099-077-563	2007-001039	R-CHIP	56KOHM.5%.1/10W.DA.TP.201	
R120	31099-077-303	2007-000738	R-CHIP	30KOHM.5%.1/10W.DA.TP.201	
R121	31099-077-113	2007-000328	R-CHIP	11KOHM.5%.1/10W.DA.TP.201	
R122	31099-077-563	2007-001039	R-CHIP	56KOHM.5%.1/10W.DA.TP.201	
R126	31099-077-223	2007-000586	R-CHIP	22KOHM.5%.1/10W.DA.TP.201	
R127	31099-077-223	2007-000586	R-CHIP	22KOHM.5%.1/10W.DA.TP.201	
R128	31099-077-221	2007-000572	R-CHIP	2200HM.5%.1/10W.DA.TP.201	
R129	31099-077-561	2007-000030	R-CHIP	5600HM.5%.1/10W.DA.TP.201	
R161	31099-077-562	2007-000981	R-CHIP	5.6KOHM.5%.1/10W.DA.TP.20	
R162	31099-077-562	2007-000981	R-CHIP	5.6KOHM.5%.1/10W.DA.TP.20	
R163	31099-077-392	2007-000710	R-CHIP	3.9KOHM.5%.1/10W.DA.TP.20	
R164	31099-077-392	2007-000710	R-CHIP	3.9KOHM.5%.1/10W.DA.TP.20	
R165	31099-077-181	2007-000449	R-CHIP	1800HM.5%.1/10W.DA.TP.201	
R166	31099-077-181	2007-000449	R-CHIP	1800HM.5%.1/10W.DA.TP.201	
R167	31099-077-562	2007-000981	R-CHIP	5.6KOHM.5%.1/10W.DA.TP.20	
R168	31099-077-561	2007-000030	R-CHIP	5600HM.5%.1/10W.DA.TP.201	
R169	31099-077-562	2007-000981	R-CHIP	5.6KOHM.5%.1/10W.DA.TP.20	
R170	31099-077-561	2007-000030	R-CHIP	5600HM.5%.1/10W.DA.TP.201	
R172	31099-077-223	2007-000586	R-CHIP	22KOHM.5%.1/10W.DA.TP.201	
R173	31099-077-223	2007-000586	R-CHIP	22KOHM.5%.1/10W.DA.TP.201	
R174	31099-077-103	2007-000300	R-CHIP	10KOHM.5%.1/10W.DA.TP.201	
R175	31099-077-223	2007-000586	R-CHIP	22KOHM.5%.1/10W.DA.TP.201	
R176	31099-077-223	2007-000586	R-CHIP	22KOHM.5%.1/10W.DA.TP.201	
R177	31099-077-000	2007-000029	R-CHIP	00HM.5%.1/10W.DA.TP.2012	
R178	31099-077-472	2007-000872	R-CHIP	4.7KOHM.5%.1/10W.DA.TP.20	
R180	31099-077-561	2007-000030	R-CHIP	5600HM.5%.1/10W.DA.TP.201	
R198	31099-077-153	2007-000409	R-CHIP	15KOHM.5%.1/10W.DA.TP.201	
R199	31099-077-153	2007-000409	R-CHIP	15KOHM.5%.1/10W.DA.TP.201	
RI161	31099-077-333	2007-000774	R-CHIP	33KOHM.5%.1/10W.DA.TP.201	
RI163	31099-077-562	2007-000981	R-CHIP	5.6KOHM.5%.1/10W.DA.TP.20	
RI166	31099-077-223	2007-000586	R-CHIP	22KOHM.5%.1/10W.DA.TP.201	
RI168	31099-077-561	2007-000030	R-CHIP	5600HM.5%.1/10W.DA.TP.201	
RI169	31099-077-561	2007-000030	R-CHIP	5600HM.5%.1/10W.DA.TP.201	
RK161	31099-077-561	2007-000030	R-CHIP	5600HM.5%.1/10W.DA.TP.201	
RK162	31099-077-562	2007-000981	R-CHIP	5.6KOHM.5%.1/10W.DA.TP.20	
RK163	31099-077-473	2007-000941	R-CHIP	47KOHM.5%.1/10W.DA.TP.201	
RK164	31099-077-223	2007-000586	R-CHIP	22KOHM.5%.1/10W.DA.TP.201	
RK165	31099-077-223	2007-000586	R-CHIP	22KOHM.5%.1/10W.DA.TP.201	
RK166	31099-077-561	2007-000030	R-CHIP	5600HM.5%.1/10W.DA.TP.201	
RL112	31018-177-472	2001-000734	R-CARBON	4.7KOHM.5%.1/8W.AA.TP.1.8	
RN111	31099-077-473	2007-000941	R-CHIP	47KOHM.5%.1/10W.DA.TP.201	
RN112	31099-077-562	2007-000981	R-CHIP	5.6KOHM.5%.1/10W.DA.TP.20	
RN113	31099-077-473	2007-000941	R-CHIP	47KOHM.5%.1/10W.DA.TP.201	
RN114	31099-077-473	2007-000941	R-CHIP	47KOHM.5%.1/10W.DA.TP.201	
RN117	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
RN118	31099-077-104	2007-000282	R-CHIP	100KOHM.5%.1/10W.DA.TP.20	
RN119	31099-077-104	2007-000282	R-CHIP	100KOHM.5%.1/10W.DA.TP.20	
RN161	31099-077-223	2007-000586	R-CHIP	22KOHM.5%.1/10W.DA.TP.201	
RN162	31099-077-561	2007-000030	R-CHIP	5600HM.5%.1/10W.DA.TP.201	
RN163	31099-077-473	2007-000941	R-CHIP	47KOHM.5%.1/10W.DA.TP.201	
RN164	31099-077-682	2007-001071	R-CHIP	6.8KOHM.5%.1/10W.DA.TP.20	
RN165	31099-077-473	2007-000941	R-CHIP	47KOHM.5%.1/10W.DA.TP.201	
RN166	31099-077-682	2007-001071	R-CHIP	6.8KOHM.5%.1/10W.DA.TP.20	
RN167	31099-077-473	2007-000941	R-CHIP	47KOHM.5%.1/10W.DA.TP.201	
RN168	31099-077-472	2007-000872	R-CHIP	4.7KOHM.5%.1/10W.DA.TP.20	
RN169	31018-177-473	2001-000786	R-CARBON	47KOHM.5%.1/8W.AA.TP.1.8X	
VR111	B1054-0270	2103-000665	VR-SEMI	20KOHM.25%.1/5W.SIDE	
Z111	B1245-0044	2904-000253	FILTER-SAW AV	33.9MHZ.DIP10P.ST	
Z112		B1243-0052	FILTER-CERAMIC	TR 5.5M TPS5.5MWATF21	
Z161	B1245-0047	2904-000300	FILTER-SAW AV	38.90MHZ.SIP5K.ST	
Z162	B1245-0062	2904-000303	FILTER-SAW AV	38.90MHZ.-.ST	
Z163	34527-460-003	2903-000185	FILTER-CERAMIC	BP.5.5MHZ	
Z167	34527-460-017	2903-000189	FILTER-CERAMIC	BP.5.74MHZ	
Z168	34527-460-017	2903-000189	FILTER-CERAMIC	BP.5.74MHZ	
ZI161	34527-460-007	2903-000195	FILTER-CERAMIC	BP.6.0MHZ	
ZK163	34527-460-010	2903-000202	FILTER-CERAMIC	BP.6.5MHZ	
ZN111		34527-460-001	FILTER-CERAMIC	TPS4.5MCTF21	
ZN161	B1243-0071	2903-000135	FILTER-CERAMIC	BP.4.5MHZ	
ZN162	B1243-0071	2903-000135	FILTER-CERAMIC	BP.4.5MHZ	

ASSY-POWER,CORD

⚠		AA39-10006X	POWER-CORD	-.KKP419C.KLCE-2F.2.286MT	
	33323-0015-010	AA61-20050A	HOLDER-CORD	-.PP.VO.BLK.DO.-	

ASSY-HOLDER,SPK

	* 3H93-52955-010	AA91-60047A	ASSY-HOLDER.SPK	-.PP.-.-.8OHM 15W.-	

REMOCON

	*	AA59-10079M	REMOCON	-.TM50.RM136EU.51.L/G MIL	

ASSY-CRT

⚠		AA03-10019B	CRT-COLOR	-.A70QAZ761X001(B).+500MG	

ASSY-ACCESSORY

	33394-100-120	AA39-40001B	CABLE-RCA	-.RCA.1500MM.0.12/10.RED/	
		AA68-10852A	MANUAL-USERS	SCT52A.S/W 120(G).A4.RUSS	
		AA68-10938A	MANUAL-USERS	SCT52A.A/P180(G).-.RUS.2-	

MEMO

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9. Block Diagrams

9-1 SCT52A Chassis

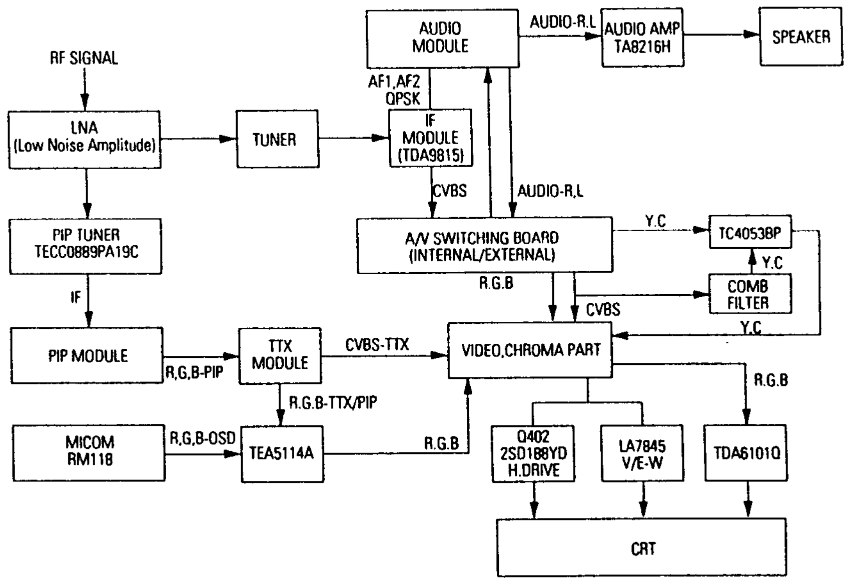
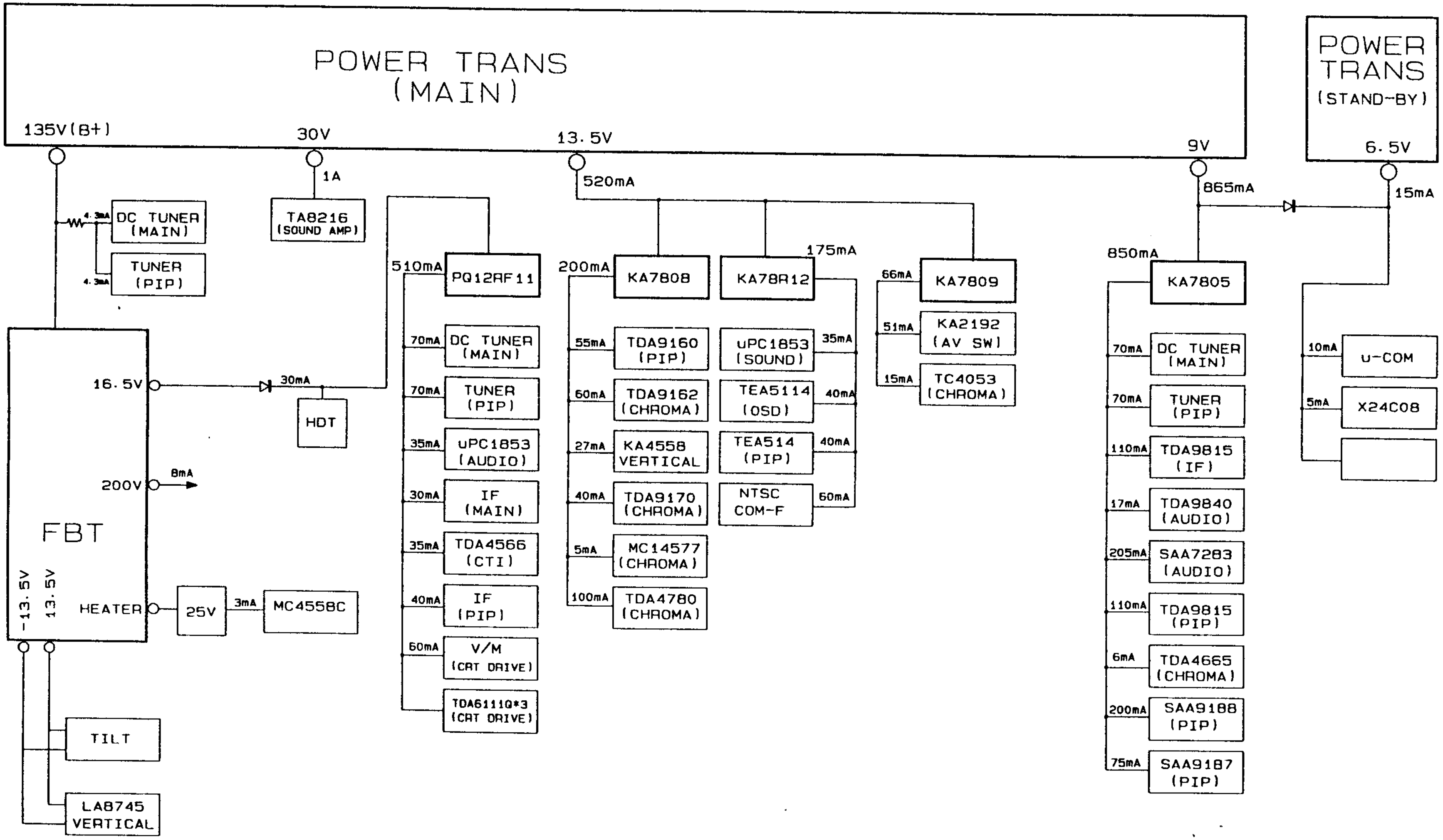

RF SIGNAL
LNA
(Low Noise Amplitude)
TUNER
IF
MODULE
(TDA9815)
AUDIO
MODULE
AUDIO-R,L
AUDIO AMP
TA8216H
SPEAKER
AF1,AF2
QPSK
CVBS
AUDIO-R,L
PIP TUNER
TECC0889PA19C
IF
A/V SWITCHING BOARD
(INTERNAL/EXTERNAL)
R.G.B
Y.C
TC4053BP
Y.C
COMB
FILTER
CVBS
Y.C
PIP MODULE
R,G,B-PIP
TTX
MODULE
CVBS-TTX
VIDEO,CHROMA PART
R.G.B
R.G.B-TTX/PIP
MICOM
RM118
R,G,B-OSD
TEA5114A
R.G.B
Q402
2SD188YD
H.DRIVE
LA7845
V/E-W
TDA6101Q
CRT

Fig. 9-1

MEMO

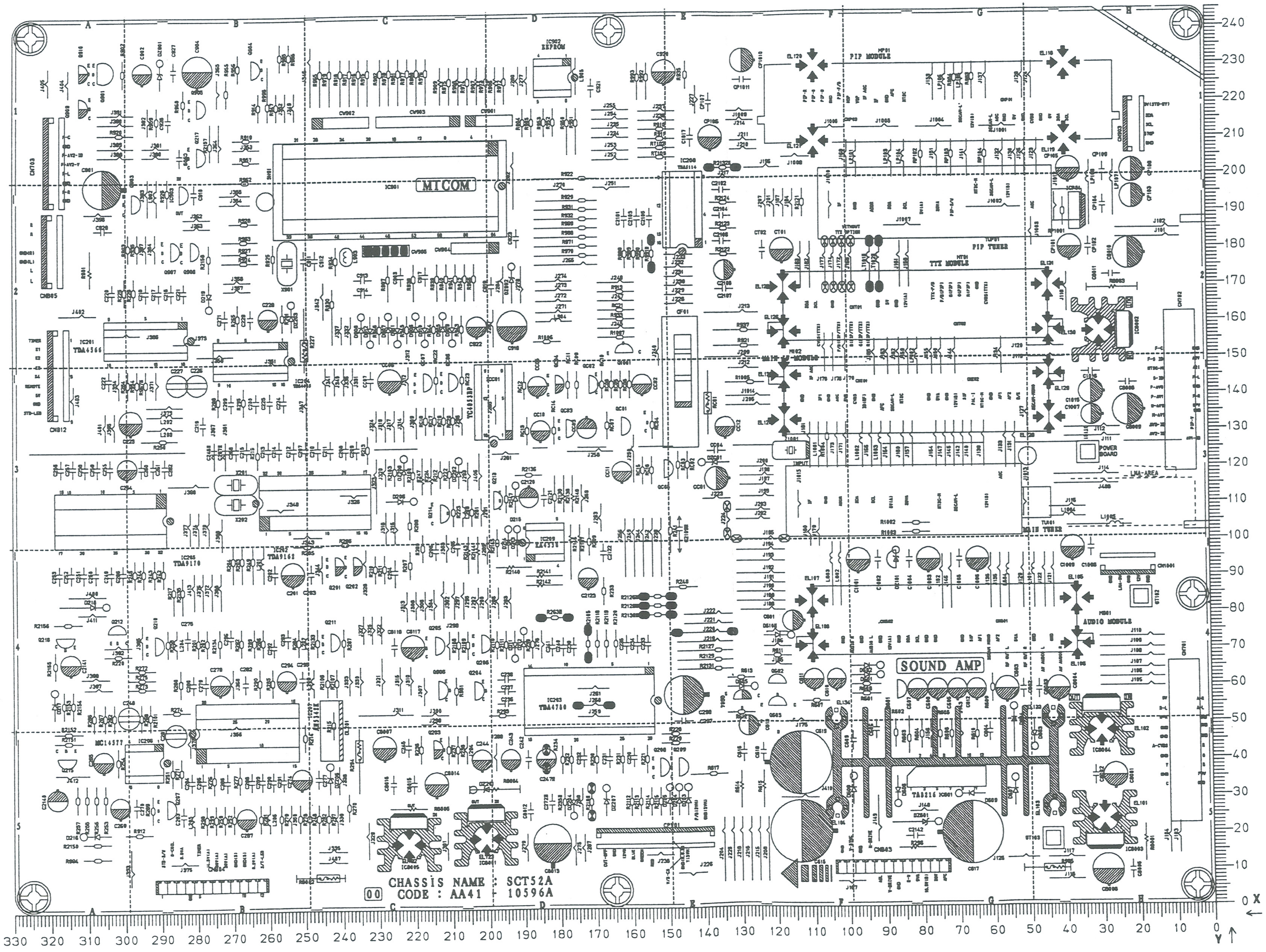
9-3 BLOCK(POWER2)

SCHEMATIC DIAGRAM
CHASSIS: SCT52A
MODEL: CS7255
BOARD NAME: BLOCK(POWER2)


POWER TRANS (MAIN)
135V(B+)
30V
13.5V
9V
POWER TRANS (STAND-BY)
6.5V
4.3mA DC TUNER (MAIN)
4.3mA TUNER (PIP)
1A
TA8216 (SOUND AMP)
510mA PQ12RF11
520mA
200mA KA7808
KA78R12
175mA
66mA KA7809
51mA KA2192 (AV SW)
15mA TC4053 (CHROMA)
865mA
15mA
850mA KA7805
16.5V
30mA
HDT
200V
8mA
FBT
-13.5V
13.5V
HEATER
25V
3mA MC4558C
TILT
LA8745 VERTICAL
70mA DC TUNER (MAIN)
70mA TUNER (PIP)
35mA uPC1853 (AUDIO)
30mA IF (MAIN)
35mA TDA4566 (CTI)
40mA IF (PIP)
60mA V/M (CRT DRIVE)
TDA6111Q*3 (CRT DRIVE)
55mA TDA9160 (PIP)
60mA TDA9162 (CHROMA)
27mA KA4558 VERTICAL
40mA TDA9170 (CHROMA)
5mA MC14577 (CHROMA)
100mA TDA4780 (CHROMA)
35mA uPC1853 (SOUND)
40mA TEA5114 (OSD)
40mA TEA514 (PIP)
60mA NTSC COM-F
70mA DC TUNER (MAIN)
70mA TUNER (PIP)
110mA TDA9815 (IF)
17mA TDA9840 (AUDIO)
205mA SAA7283 (AUDIO)
110mA TDA9815 (PIP)
6mA TDA4665 (CHROMA)
200mA SAA9188 (PIP)
75mA SAA9187 (PIP)
10mA u-COM
5mA X24C08

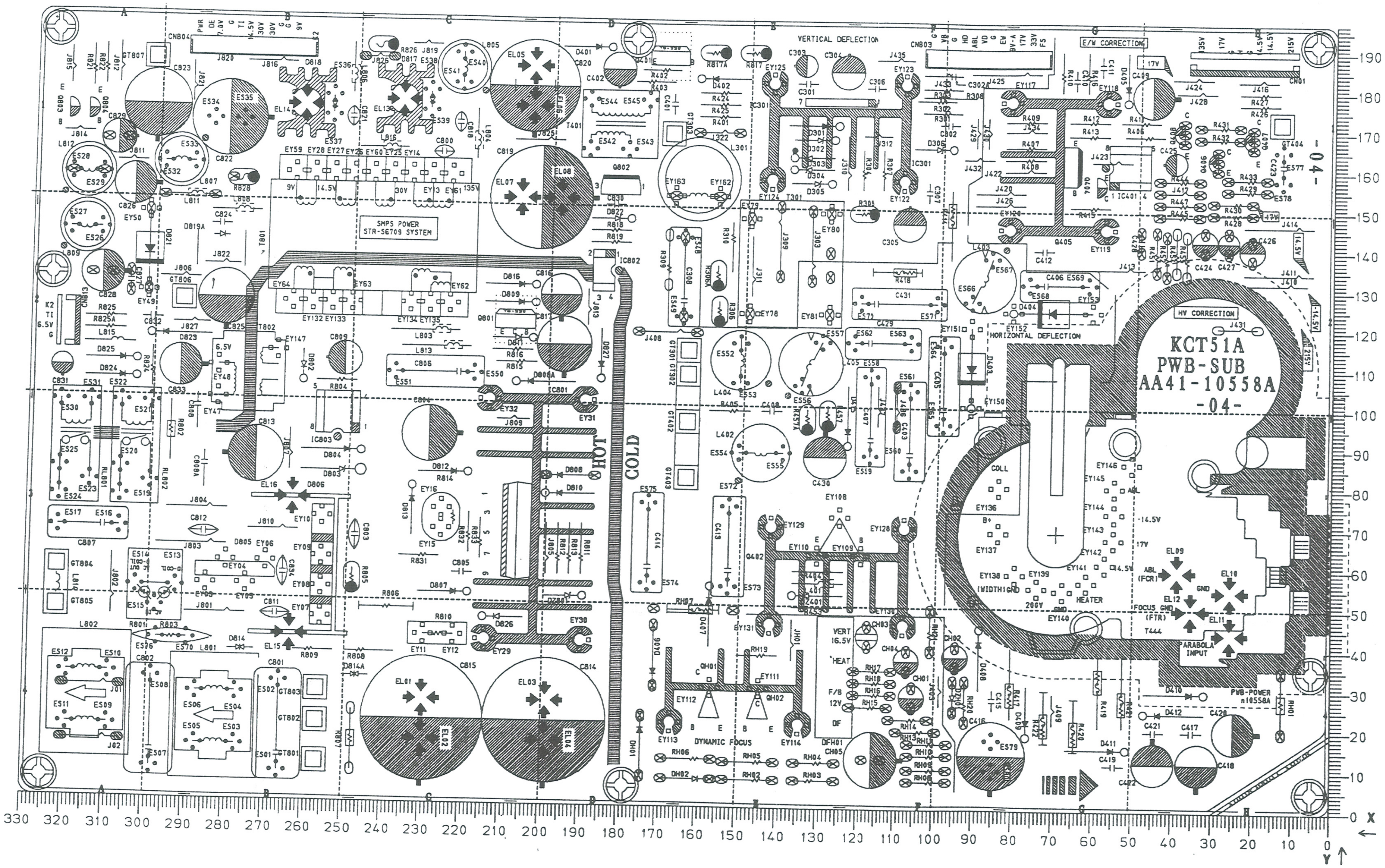
10. PCB Layout Diagram

10-1 PWB-MAIN


MICOM
IC901
PIP MODULE
TTX MODULE
AUDIO MODULE
SOUND AMP
TDA4366
TDA9170
TDA9161
TDA4780
MC14577
TA8216
POWER BOARD
CHASSIS NAME : SCT52A
00 CODE : AA41 - 10596A
A B C D E F G H
1 2 3 4 5
240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0
330 320 310 300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0
X
Y

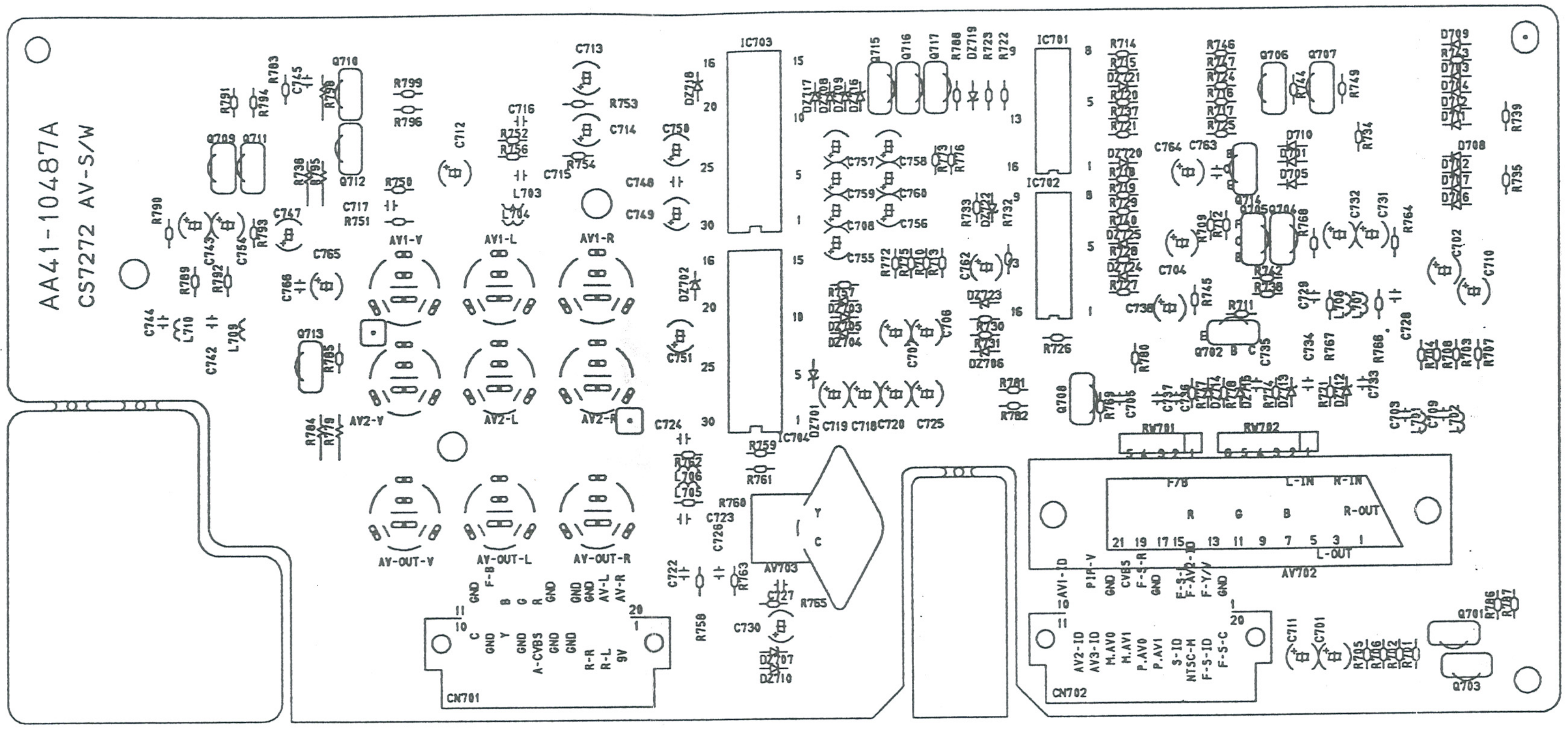
LOC' NO	X	Y	LOC' NO	X	Y
DIODE			*TRANSISTOR*		
D203	145	33	Q1001	158	152
D204	147	33	Q201	241	91
D205	150	33	Q202	236	91
D206	219	112	Q203	215	41
D211	192	68	Q204	203	57
D212	190	76	Q205	214	69
D213	191	104	Q206	201	70
D214	194	104	Q207	288	26
D215	191	116	Q208	152	36
D216	311	21	Q209	147	36
D217	319	60	Q210	291	70
D218	305	84	Q211	243	71
D219	275	165	Q212	299	76
D601	91	63	Q213	198	109
D602	91	65	Q214	212	106
D603	49	43	Q215	318	42
D604	54	54	Q216	318	75
D605	126	60	Q217	279	204
D606	87	28	Q601	87	56
D607	54	34	Q602	117	60
D608	99	35	Q603	117	54
D609	70	30	Q604	127	56
D610*	116	74	Q901	305	227
D905	211	163	Q903	297	192
D906	219	163	Q904	264	228
D907	226	163	Q905	279	217
D908	234	163	Q906	213	57
D909	209	155	Q907	286	179
D910	216	155	Q908	281	179
D911	224	155	Q909	312	218
D912	231	155	Q910	312	227
DL201	245	54	QC01	162	129
DZ101	86	97	QC02	171	141
DZ201	204	33	QC03	177	129
DZ202	207	123	QC04	180	141
DZ203	253	166	QC05	150	117
DZ204	176	25	QC06	210	142
DZ206	243	39	QC07	217	142
DZ207	167	33			
DZ208	222	123			
DZ601	76	22			
DZ901	289	233			
DZ902	192	176			
DZC01	140	121			
I C					
IC201	283	153			
IC202	260	117			
IC203	155	48			
IC204	255	147			
IC205	290	102			
IC206	291	37			
IC207	278	55			
IC208	149	182			
IC209	187	104			
IC601	43	27			
IC8001	201	19			
IC8002	29	157			
IC8003	30	23			
IC8004	30	47			
IC8005	222	18			
IC901	198	188			
IC902	176	223			
IC903	284	194			
ICC01	202	130			
ICP01	36	185			

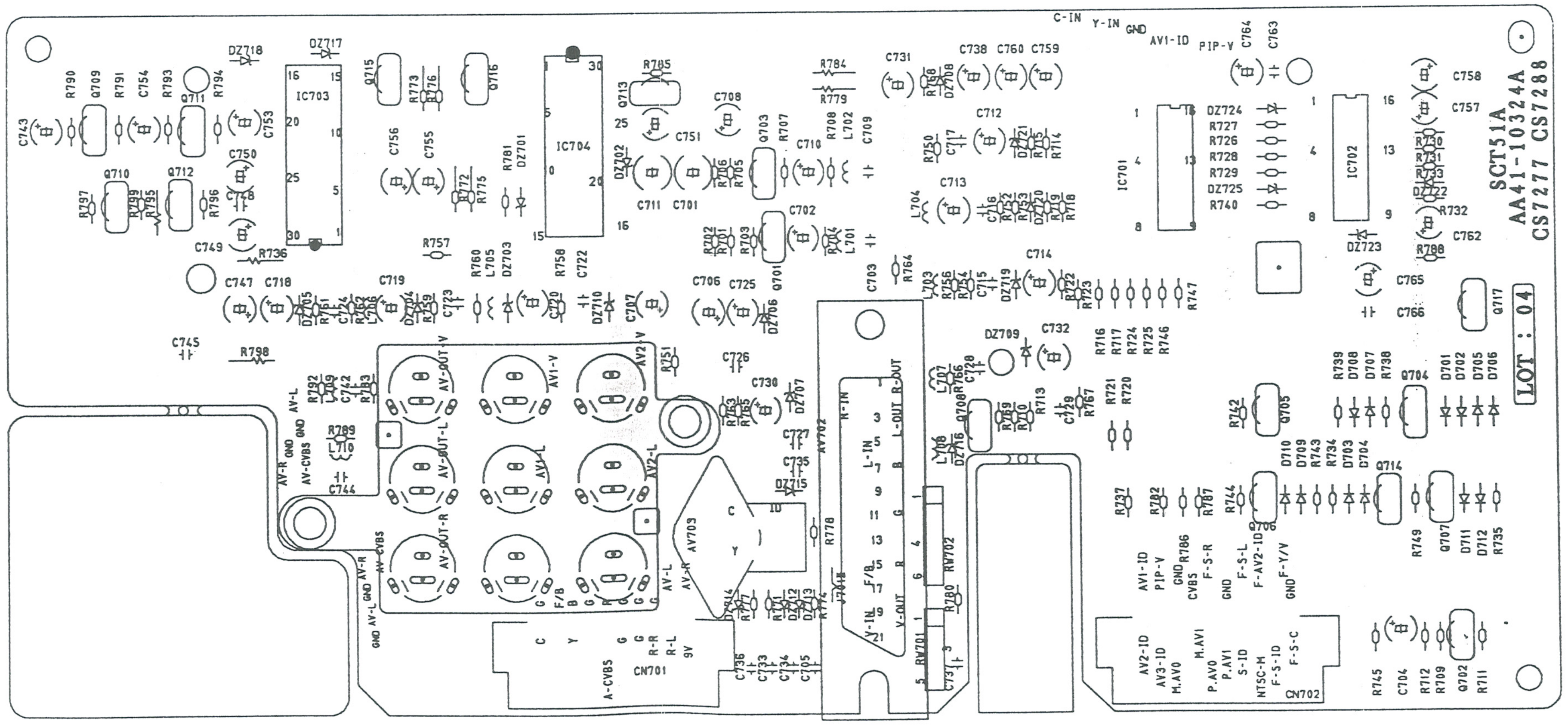
10-2 PWB POWER


VERTICAL DEFLECTION
E/W CORRECTION
SMPS POWER
STR-S6709 SYSTEM
HOT
COLD
HORIZONTAL DEFLECTION
HV CORRECTION
KCT51A
PWB-SUB
AA41-10558A
-04-
DYNAMIC FOCUS
PARABOLA INPUT
PWB-POWER
HEATER
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
330
320
310
300
290
280
270
260
250
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
X
Y

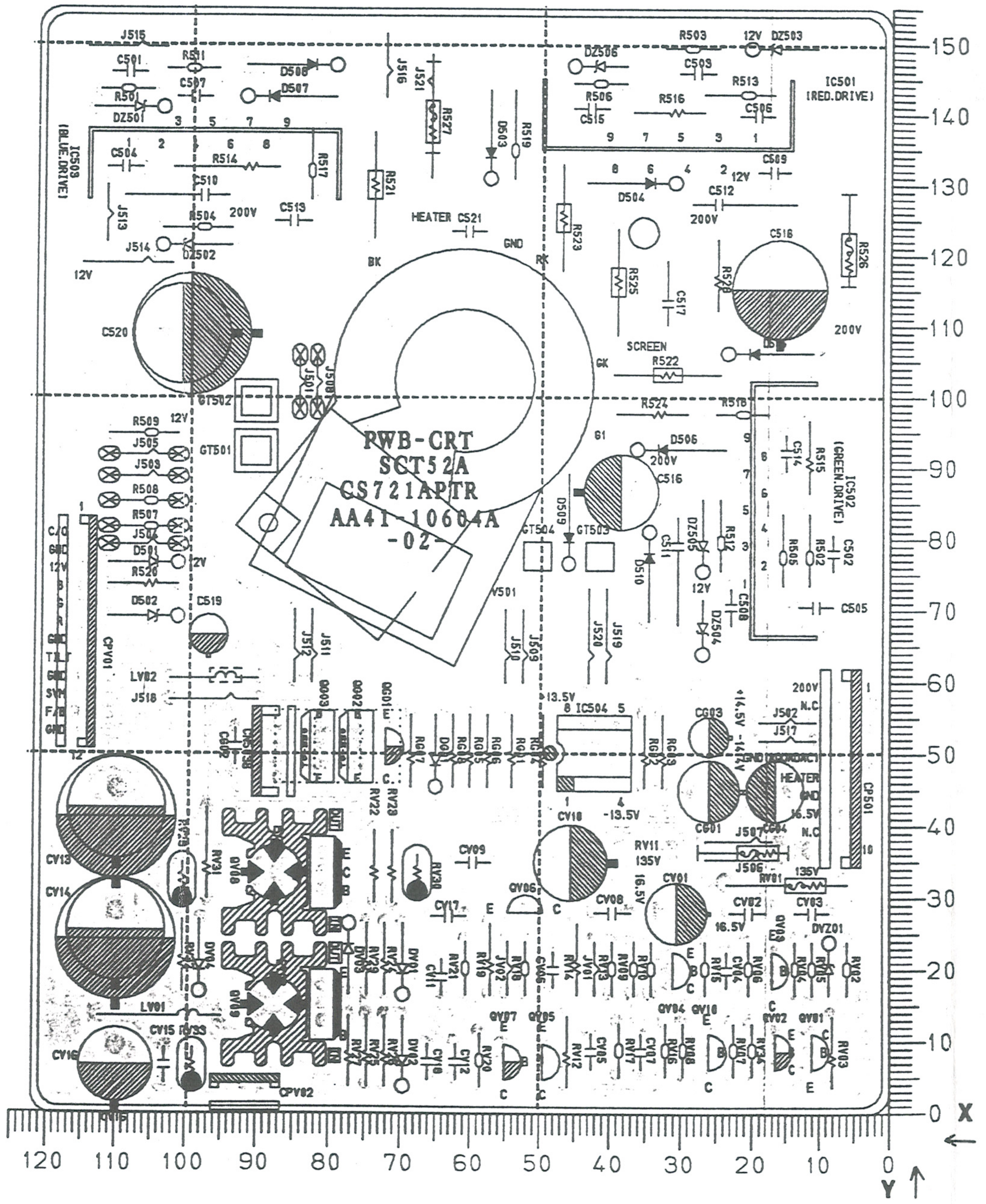
LOC' NO	X	Y	LOC' NO	X	Y
DIODE			*I C*		
D301	127	171	IC301	143	181
D302	128	167	IC401	56	166
D303	138	163	IC801	214	41
D304	138	160	IC802	184	129
D305	128	156	IC803	257	93
D306	97	165	*TRANSISTOR*		
D401	185	190	Q401	167	188
D402	162	182	Q402	142	70
D403	91	100	Q404	60	154
D404	81	124	Q405	58	177
D405	53	177	Q406	30	165
D406	171	30	Q407	21	171
D407	157	55	Q408	38	172
D408	88	45	Q801	205	121
D409	76	18	Q802	179	155
D410	32	29	Q803	322	169
D411	51	15	Q804	317	169
D412	47	24	QH01	166	21
D415	123	90	QH02	144	29
D802	261	105			
D803	246	82			
D804	246	87			
D805	270	59			
D806	263	75			
D807	218	52			
D808	199	82			
D808A	207	105			
D809	203	125			
D810	199	77			
D811	203	116			
D812	219	82			
D813	233	79			
D814	279	37			
D814A	250	31			
D816	203	130			
D817	237	176			
D818	262	174			
D819A	280	141			
D821	301	127			
D822	179	147			
D823	300	116			
D824	303	105			
D825	303	109			
D826	214	46			
D827	186	106			
DFH01	128	21			
DH01	174	22			
DH02	156	7			
DZ401	136	53			
DZ801	189	52			
DZH01	95	24			

10-3 PCB-AV SWITCHING


AA41-10487A
CS7272 AV-S/W
IC703
IC701
IC702
AV1-V
AV1-L
AV1-R
AV2-V
AV2-L
AV2-R
AV-OUT-V
AV-OUT-L
AV-OUT-R
AV703
AV702
CN701
CN702
RW701
RW702

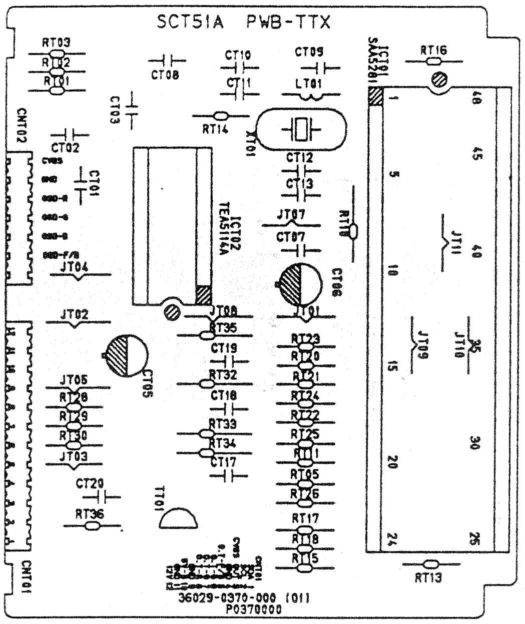

SCT51A
AA41-10324A
CS7277 CS7288
LOT : 04
IC703
IC704
IC701
IC702
AV703
AV702
CN701
CN702
RW701
RW702

10-4 PCB-CRT

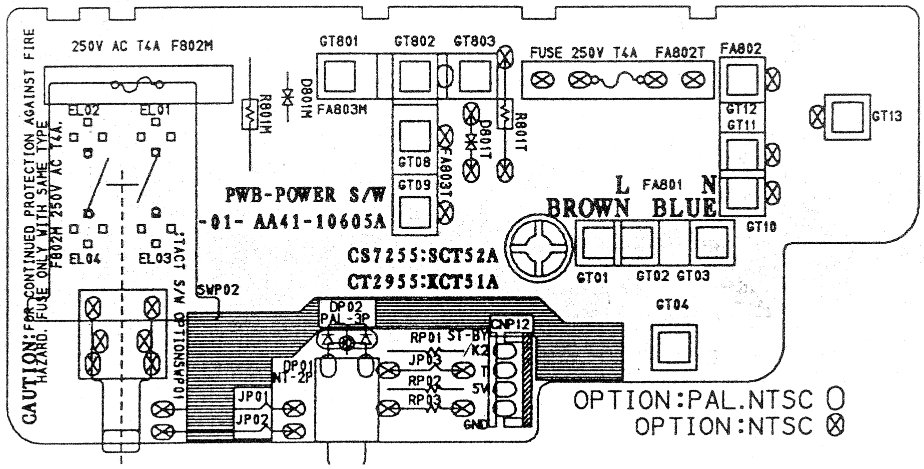

PWB-CRT
SCT52A
CS721APTR
AA41-10664A
-02-
IC501 (RED.DRIVE)
IC502 (GREEN.DRIVE)
IC503 (BLUE.DRIVE)
IC504
HEATER
SCREEN
GND
200V
12V
CP501
CPV01
CPV02
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
X
120
110
100
90
80
70
60
50
40
30
20
10
0
Y

LOC' NO	X	Y	LOC' NO	X	Y
DIODE			*I C*		
D501	101	77	IC501	24	134
D502	101	69	IC502	21	77
D503	57	131	IC503	104	138
D504	31	130	IC504	46	55
D505	23	106	*TRANSISTOR*		
D506	36	93	QG01	72	49
D507	92	142	QG02	76	54
D508	79	147	QG03	81	54
D509	46	77	QV01	11	6
D510	34	81	QV02	16	6
DG01	65	46	QV03	17	18
DV01	69	17	QV04	31	18
DV02	69	4	QV05	49	5
DV03	77	27	QV06	49	28
DV04	98	17	QV07	55	5
DVZ01	8	24	QV08	87	34
DZ501	104	141	QV09	87	15
DZ502	104	121	QV10	26	6
DZ503	20	149			
DZ504	27	64			
DZ505	27	76			
DZ506	45	147			

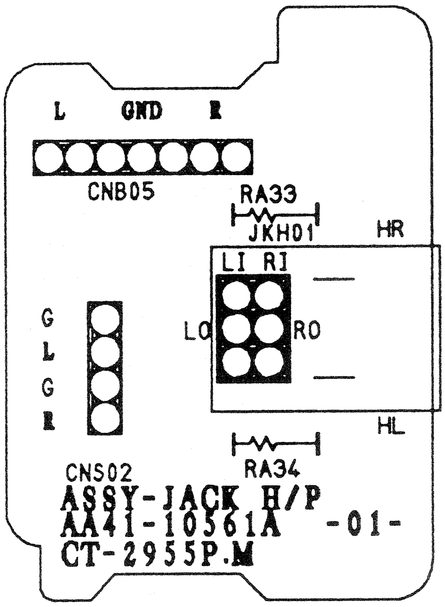
10-5 PCB-TTX


SCT51A PWB-TTX
RT03
RT02
RT01
CNT02
CT02
CT01
CT03
CT08
CT10
CT11
CT09
LT01
RT14
XT01
CT12
CT13
JT07
CT07
CT06
RT18
ICT02
TEA5114A
ICT01
SAA5281
RT16
JT11
JT10
JT09
JT04
JT02
JT08
RT35
CT19
RT32
CT18
RT33
RT34
CT17
JT01
RT23
RT20
RT21
RT24
RT22
RT25
RT11
RT05
RT26
RT17
RT18
RT15
CT05
JT05
RT28
RT29
RT30
JT03
CT20
RT36
TT01
CNT01
RT13
36029-0370-000 (01)
P0370000

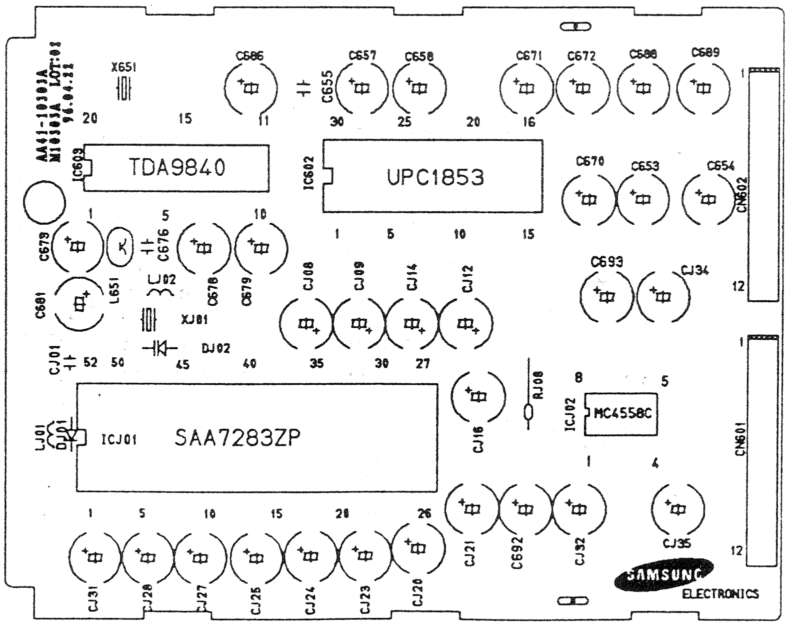
10-6 POWER S/W


CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD. FUSE ONLY WITH SAME TYPE F802M 250V AC T4A.
250V AC T4A F802M
EL02
EL01
EL04
EL03
TACT S/W OPTIONSWP01
SWP02
R801M
D801M
GT801
GT802
GT803
FA803M
GT08
GT09
FA803T
D801T
R801T
FUSE 250V T4A FA802T
FA802
GT12
GT11
GT13
L FA801 N
BROWN BLUE
GT10
GT01
GT02 GT03
GT04
PWB-POWER S/W
-01- AA41-10605A
CS7255:SCT52A
CT2955:XCT51A
DP02
PAL-3P
DP01
NT-2P
JP01
JP02
RP01
ST-BY
/K2
JP03
T
RP02
5V
RP03
GND
CNP12
OPTION:PAL.NTSC ○
OPTION:NTSC ⊗

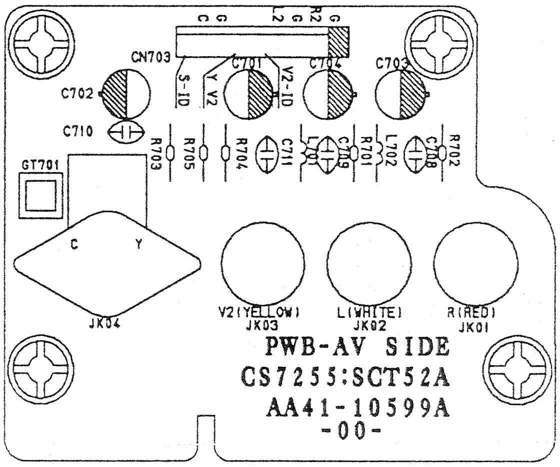
10-7 H/POHONE


L
GND
R
CNB05
RA33
JKH01
HR
LI
RI
LO
RO
G
L
G
R
HL
RA34
CNS02
ASSY-JACK H/P
AA41-10561A -01-
CT-2955P.M

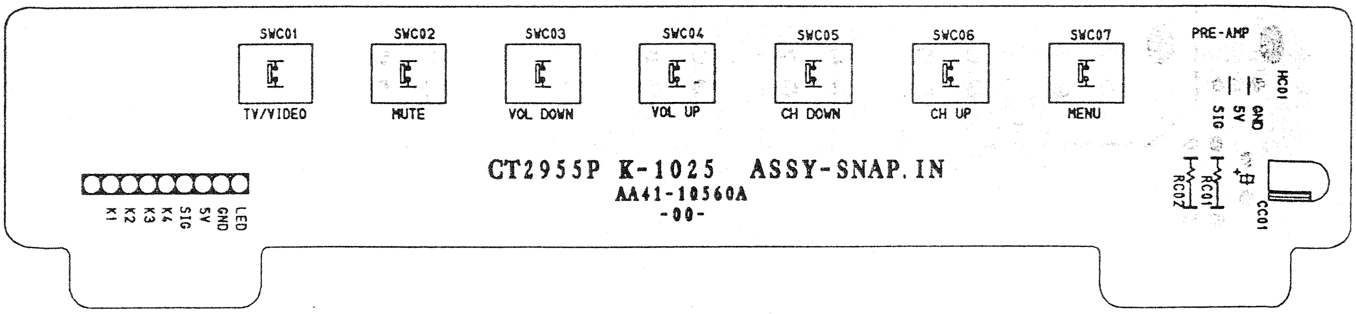
10-8 PCB-NICAM


AA41-10303A
M10303A LOT:02
96.04.22
X651
C686
C655
C657
C658
C671
C672
C688
C689
TDA9840
IC603
IC602
UPC1853
C670
C653
C654
CN602
C679
C676
C678
C681
L651
LJ02
XJ01
DJ02
CJ08
CJ09
CJ14
CJ12
C693
CJ34
CJ01
SAA7283ZP
ICJ01
LJ01
DJ01
CJ16
RJ08
ICJ02
MC4558C
CN601
CJ31
CJ28
CJ27
CJ25
CJ24
CJ23
CJ20
CJ21
C692
CJ32
CJ35
SAMSUNG
ELECTRONICS

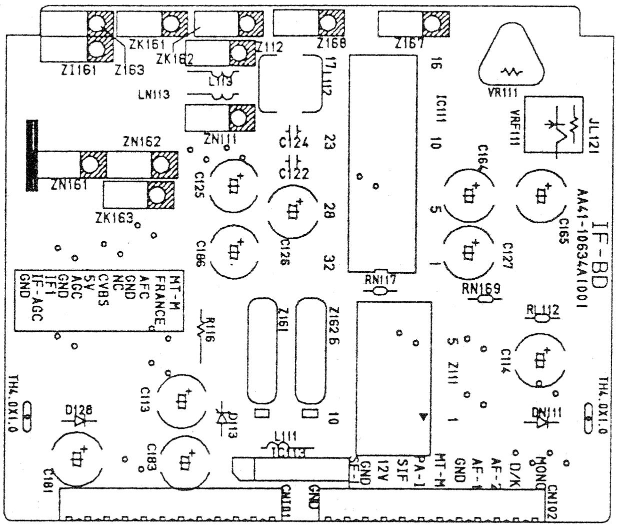
10-9 PCB-A/V


C
G
L2
G
R2
G
CN703
S-ID
Y V2
C701
V2-ID
C704
C703
C702
C710
R703
R705
R704
C711
L701
C709
R701
L702
C708
R702
GT701
C
Y
JK04
V2(YELLOW)
JK03
L(WHITE)
JK02
R(RED)
JK01
PWB-AV SIDE
CS7255:SCT52A
AA41-10599A
-00-

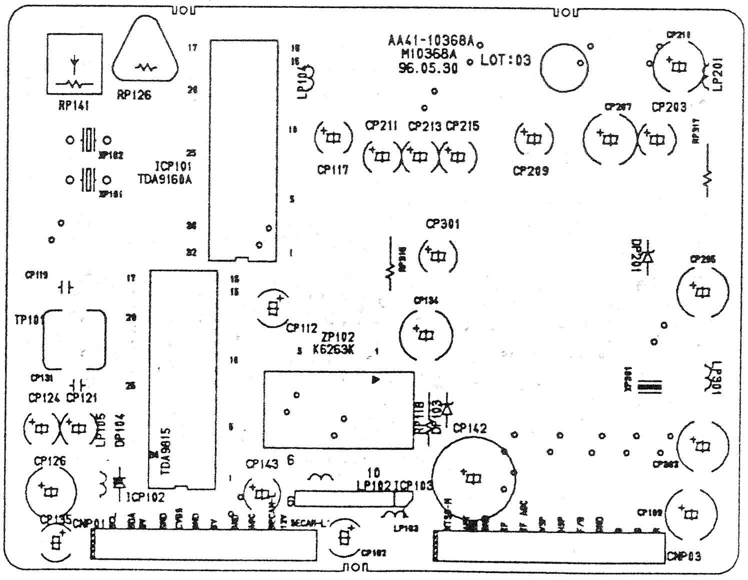
10-10 PCB-SNAPIN


SWC01
TV/VIDEO
SWC02
MUTE
SWC03
VOL DOWN
SWC04
VOL UP
SWC05
CH DOWN
SWC06
CH UP
SWC07
MENU
PRE-AMP
HC01
GND
5V
SIG
RC01
RC02
CC01
K1
K2
K3
K4
SIG
5V
GND
LED
CT2955P K-1025 ASSY-SNAP.IN
AA41-10560A
-00-

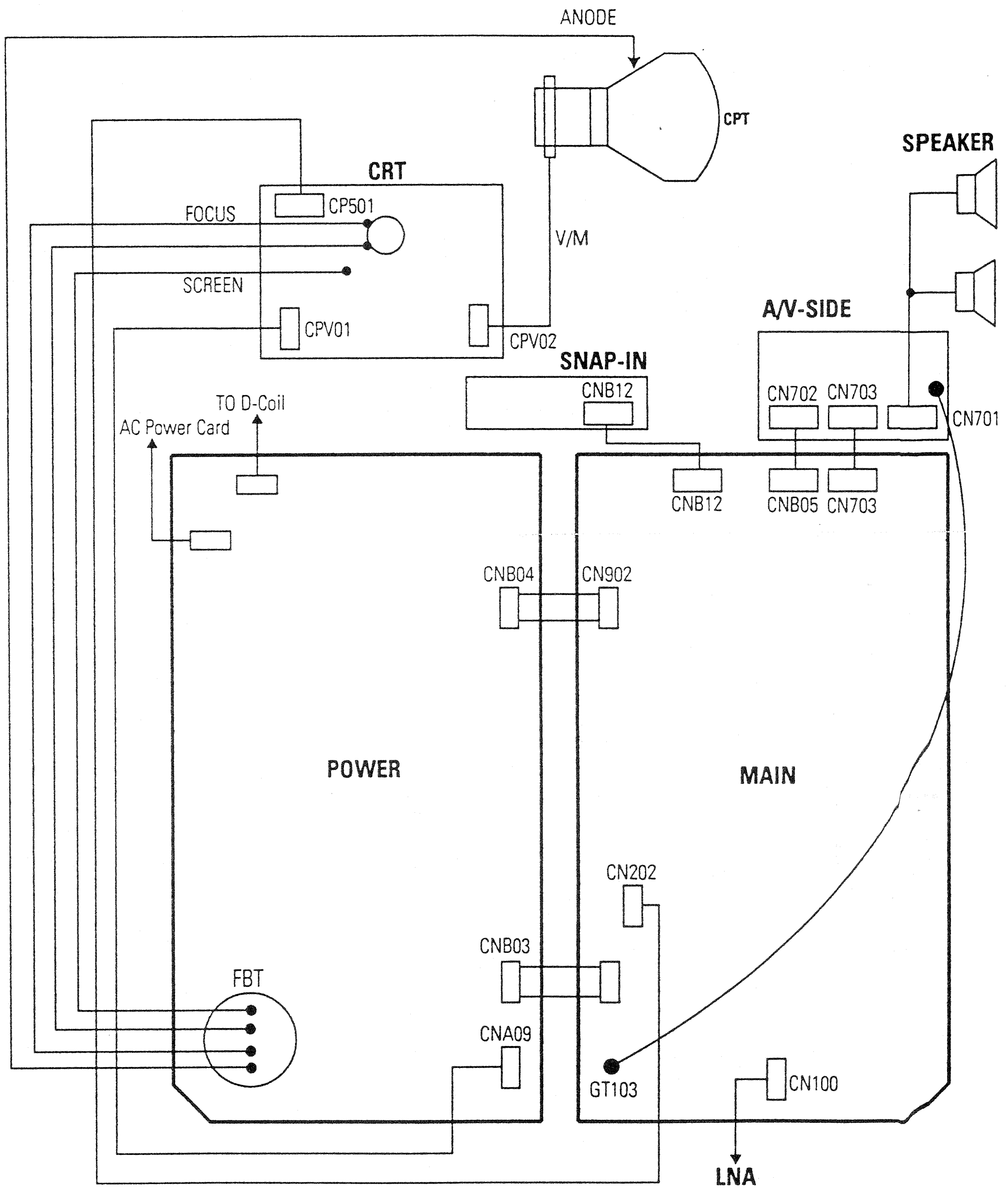
10-11 PCB-IF


ZI161
ZI63
ZK161
ZK162
ZI112
ZI68
ZI67
L113
LN113
ZN162
ZN111
ZN161
ZK163
C124
C122
C125
C126
C186
IC111
VR111
VRF111
JLL121
C164
C165
C127
IF-BD
AA41-10634A1001
RN117
RN169
RL112
MT-M
FRANCE
AFC
GND
NC
CVBS
5V
AGC
GND
IF1
IF-AGC
GND
R116
ZI61
ZI626
C113
D113
C114
ZI11
DN111
TH4.0X1.0
D128
C181
C183
L111
CN101
GND
SE-1
12V
SIF
PA-1
MT-M
GND
AF-1
AF-2
D/K
MONO
CN102

10-12 PCB-PIP

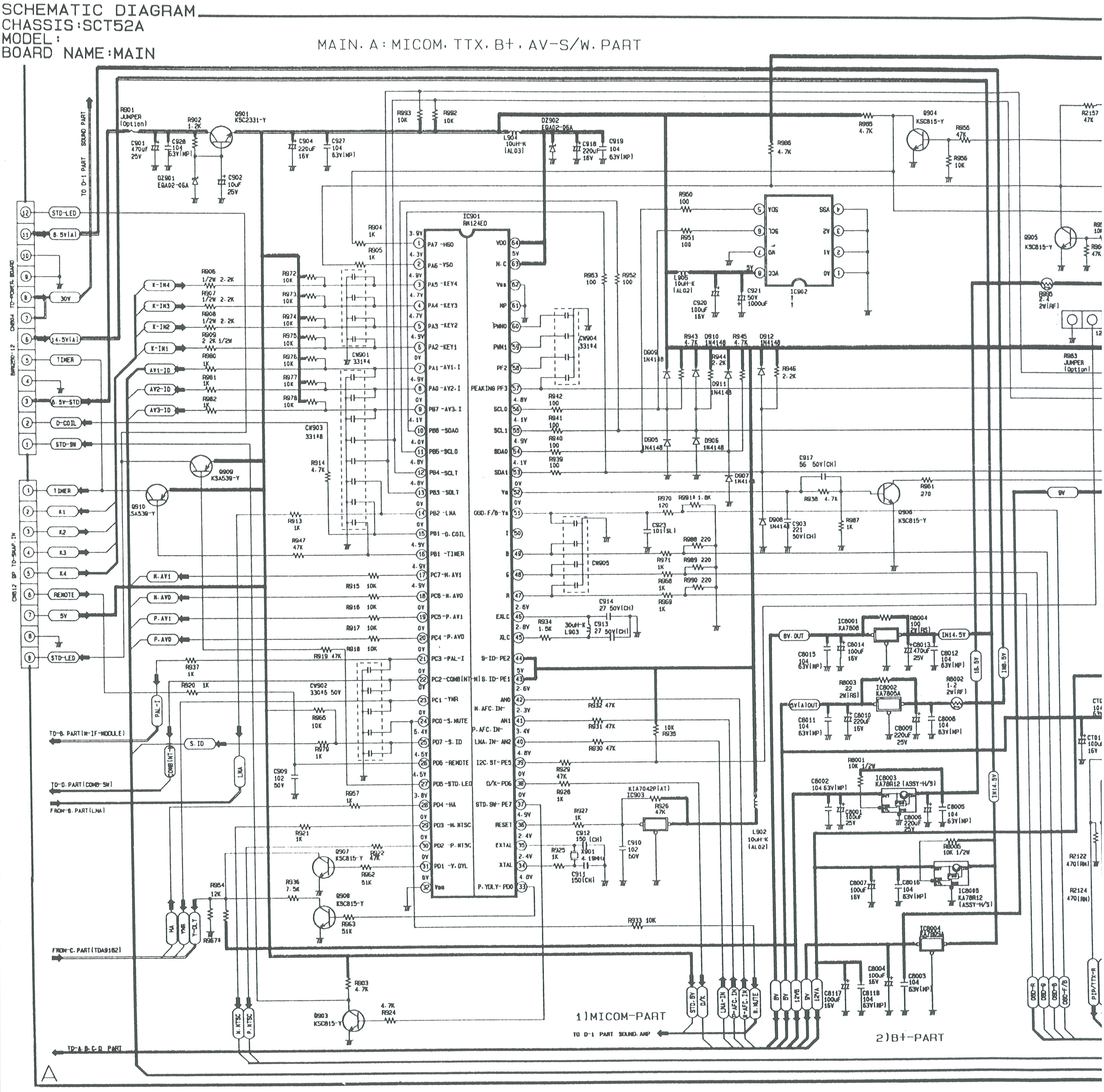

AA41-10368A
M10368A
96.05.30
LOT:03
RP141
RP126
ICP101
TDA9160A
LP104
CP211
CP213
CP215
CP117
CP209
CP203
CP207
CP201
LP201
CP301
DP201
CP134
CP112
ZP102
K6263K
TP101
CP131
CP124
CP121
CP126
LP105
DP104
TDA9815
ICP102
CP135
CNP01
CP143
LP102
ICP103
RP118
DP103
CP142
LP301
CP102
LP103
CP109
CNP03
SECAM-L

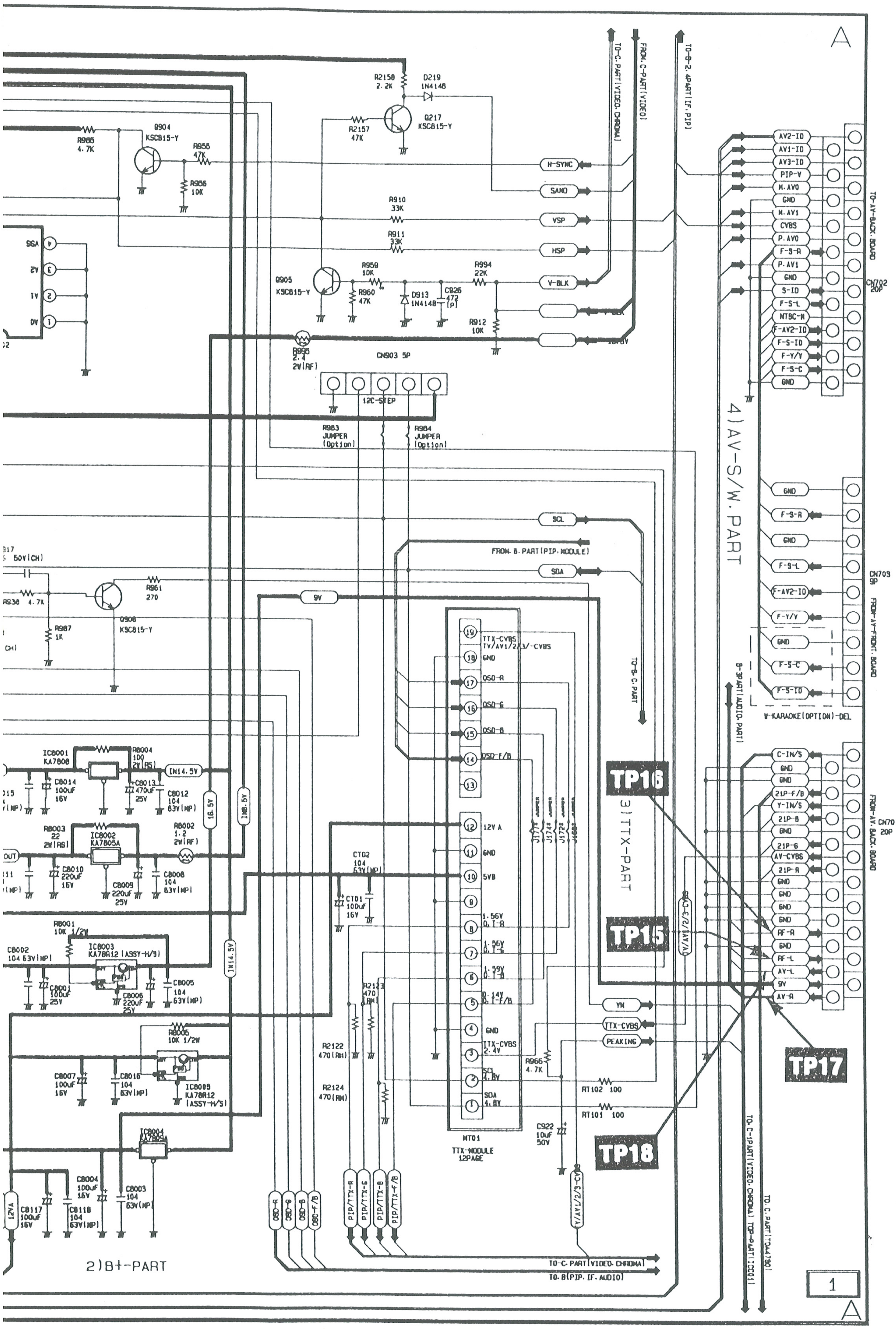
11. Wiring Diagram

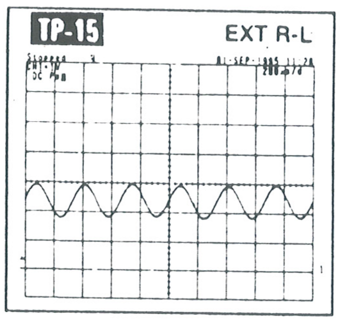

ANODE
CPT
SPEAKER
CRT
CP501
FOCUS
V/M
SCREEN
CPV01
CPV02
A/V-SIDE
SNAP-IN
CNB12
CN702
CN703
CN701
TO D-Coil
AC Power Card
CNB12
CNB05
CN703
CNB04
CN902
POWER
MAIN
CN202
CNB03
FBT
CNA09
GT103
CN100
LNA

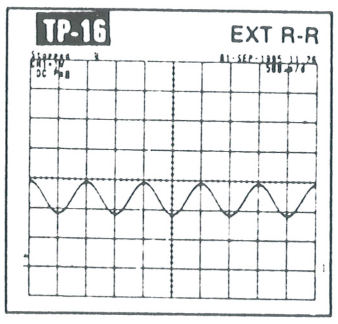
12. Schematic Diagrams

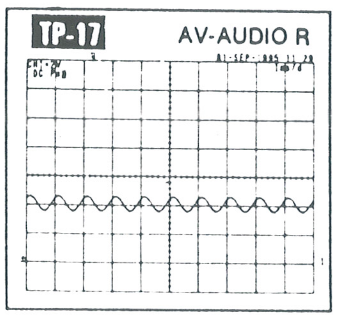
12-1 MICOM, TTX, B+, A/V-SW

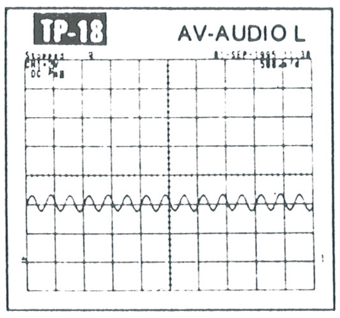

SCHEMATIC DIAGRAM
CHASSIS:SCT52A
MODEL:
BOARD NAME:MAIN
MAIN. A: MICOM, TTX, B+, AV-S/W. PART
IC901
RH124ED
IC902
IC903
KIA7042P(AT)
IC8001
KA7808
IC8002
KA7805A
IC8003
KA78R12 (ASSY-H/S)
IC8004
KA7805A
IC8005
KA78R12 (ASSY-H/S)
Q901
KSC2331-Y
Q903
KSC815-Y
Q904
KSC815-Y
Q905
KSC815-Y
Q906
KSC815-Y
Q907
KSC815-Y
Q908
KSC815-Y
Q909
KSA539-Y
Q910
KSA539-Y
CN804 TO-POWER BOARD
CN812 TO-SWAP IN
STD-LED
8.5V(A)
30V
14.5V(A)
TIMER
8.5V-STD
D-COIL
STD-SW
K-IN4
K-IN3
K-IN2
K-IN1
AV1-ID
AV2-ID
AV3-ID
K1
K2
K3
K4
REMOTE
5V
N.AV1
N.AVO
P.AV1
P.AVO
PAL-I
COMB(NT)
S.ID
LMA
HA
YNR
Y-DLY
N.NTSC
P.NTSC
TO-B PART(IF-MODULE)
TO-D PART(COMB-SW)
FROM-B PART(LMA)
FROM-C PART(TDA9162)
TO-A.B.C.D PART
TO D-1 PART SOUND PART
TO D-1 PART SOUND AMP
1)MICOM-PART
2)B+-PART
STD.8V
D/K
LMA-IN
N.AFC.IN
P.AFC.IN
N.MUTE
8V
5V
12VB
9V
12VA
8V.OUT
IN14.5V
5V(A)OUT
18.5V
IN8.5V
IN14.5V
OSD-R
OSD-G
OSD-B
OSD-F/B
PIP/TTX-R
A


A
TO-C-PART(VIDEO-CHROMA)
FROM-C-PART(VIDEO)
TO-B-2.4PART(IF,PIP)
R2158 2.2K
D219 1N4148
R2157 47K
Q217 KSC815-Y
Q904 KSC815-Y
R968 4.7K
R955 47K
R956 10K
H-SYNC
SAND
VSP
HSP
V-BLK
R910 33K
R911 33K
R959 10K
R960 47K
D913 1N4148
C826 472(P)
R994 22K
R912 10K
Q905 KSC815-Y
R993 2.4 2W(RF)
CN903 5P
I2C-STEP
R983 JUMPER (Option)
R984 JUMPER (Option)
AV2-ID
AV1-ID
AV3-ID
PIP-V
M.AVO
GND
M.AV1
CVBS
P.AVO
F-S-R
P.AV1
S-ID
F-S-L
NTSC-N
F-AV2-ID
F-S-ID
F-Y/Y
F-S-C
TO-AV-BACK BOARD
CN702 20P
4)AV-S/W. PART
SCL
FROM. B. PART(PIP. MODULE)
SDA
9V
CN703 9P
FROM-AV-FRONT. BOARD
W-KARAOKE(OPTION)-DEL
TO-B-C.PART
B-3PART(AUDIO. PART)
TTX-CVBS TV/AV1/2/3/-CVBS
OSD-R
OSD-G
OSD-B
OSD-F/B
12V A
5VB
TP16
3)TTX-PART
TP15
TP17
TP18
C-IN/S
21P-F/B
Y-IN/S
21P-B
21P-G
AV-CVBS
21P-R
RF-R
RF-L
AV-L
AV-R
CN701 20P
FROM-AV-BACK BOARD
Q906 KSC815-Y
R961 270
R987 1K
IC8001 KA7808
R8004 100 2W(RS)
IN14.5V
IC8002 KA7805A
IC8003 KA78R12 (ASSY-H/3)
IC8005 KA78R12 (ASSY-H/3)
IC8004 KA7805A
16.5V
IN8.5V
IN14.5V
CT02 104 63V(MP)
CT01 100uF 16V
R2122 470(RH)
R2124 470(RH)
R966 4.7K
RT102 100
RT101 100
C922 10uF 50V
MT01 TTX-MODULE 12PAGE
YM
TTX-CVBS
PEAKING
OSD-R
OSD-G
OSD-B
OSD-F/B
PIP/TTX-R
PIP/TTX-G
PIP/TTX-B
PIP/TTX-F/B
Y-C/2/3/AV/A
TO-C-PART(VIDEO-CHROMA)
TO-B(PIP. IF. AUDIO)
TO-C-1PART(VIDEO-CHROMA) TOP-PART(IC01)
TO-C.PART(TDA4780)
12VA
2)B+-PART
1


TP-15
EXT R-L

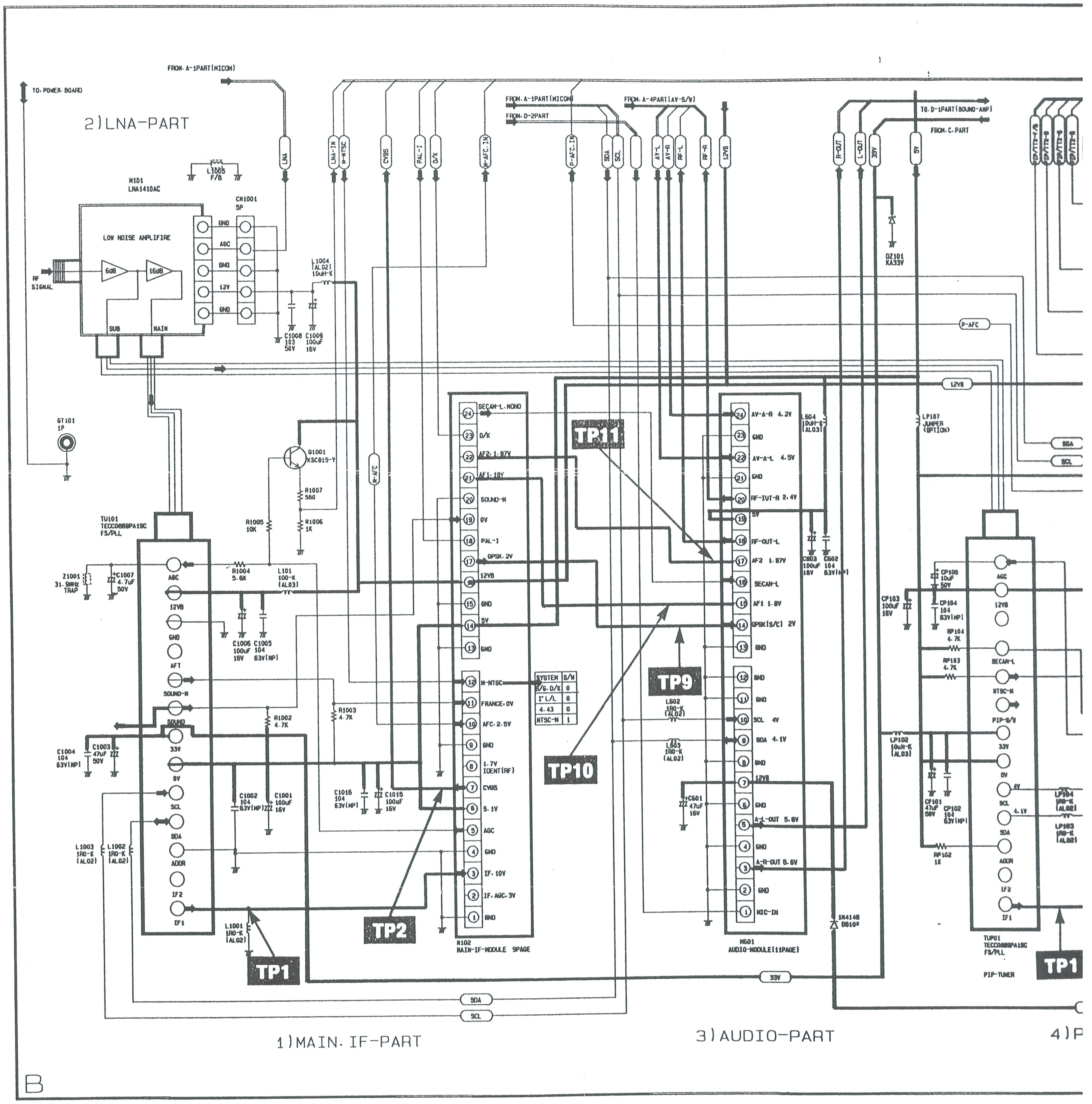

TP-16
EXT R-R

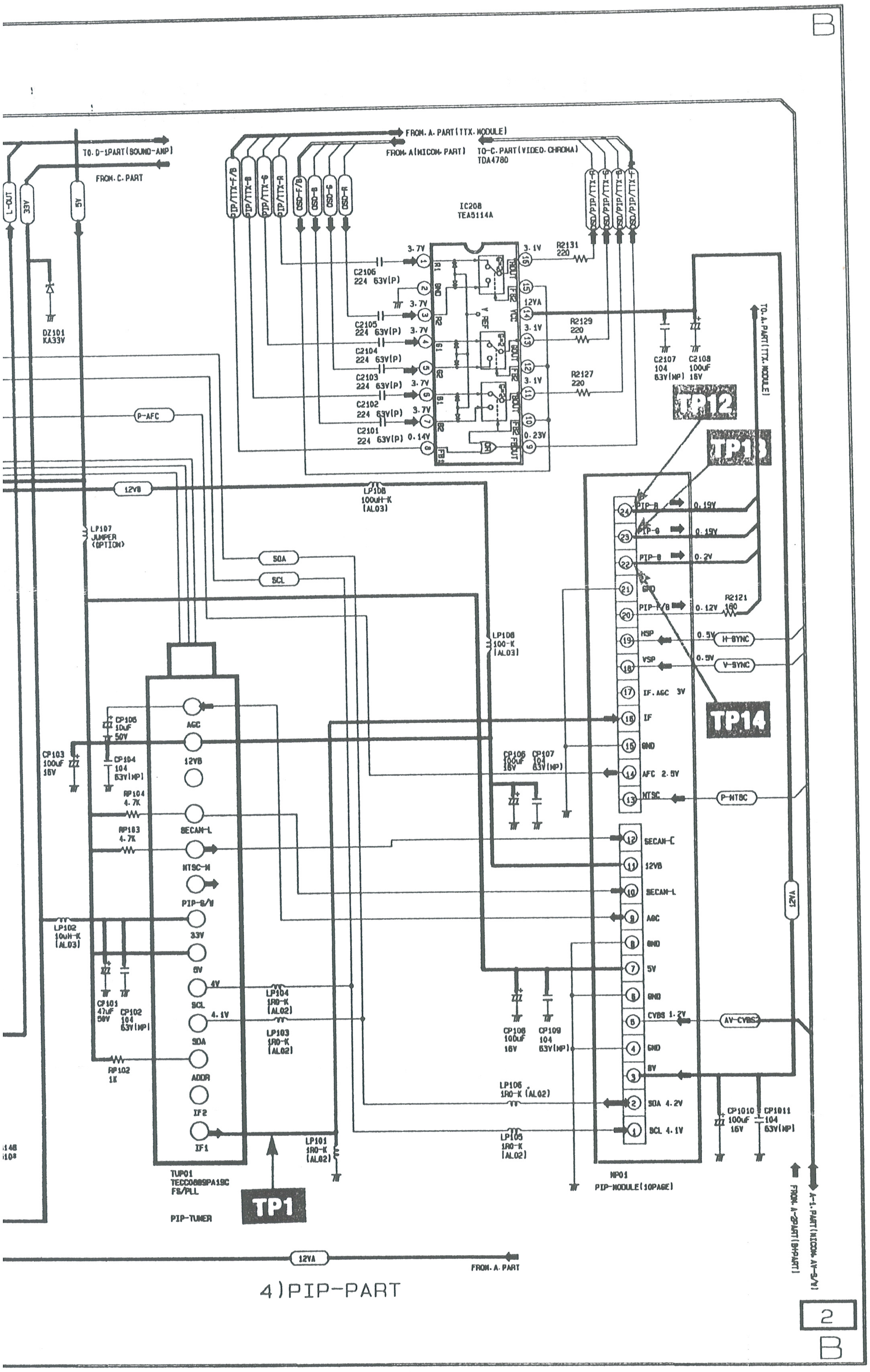

TP-17
AV-AUDIO R


TP-18
AV-AUDIO L

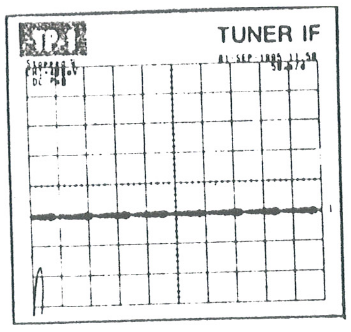
———— : Power Line

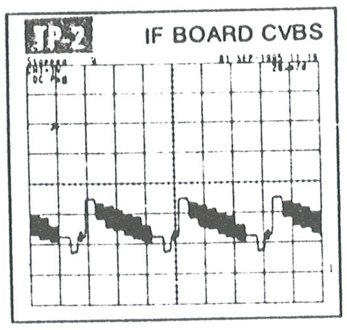
12-2 MAIN, PIP-IF, AUDIO-MODULE

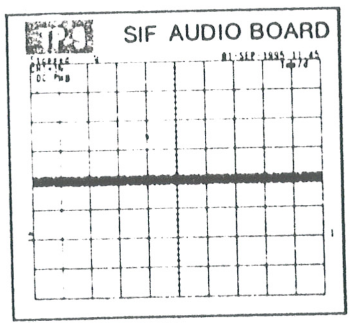

2) LNA-PART
1) MAIN. IF-PART
3) AUDIO-PART
4) P
B
TO. POWER. BOARD
FROM. A-1PART(MICOM)
FROM. A-1PART(MICOM)
FROM. D-2PART
FROM. A-4PART(AV-S/V)
TO. D-1PART(SOUND-AMP)
FROM. C. PART
LNA
LNA-IN
N-NTSC
CVBS
PAL-I
D/K
M-AFC. IN
P-AFC. IN
SDA
SCL
AV-L
AV-R
RF-L
RF-R
12VB
R-OUT
L-OUT
33V
5V
M101
LNA1410AC
L1005
F/B
CN1001
5P
LOW NOISE AMPLIFIRE
RF SIGNAL
6dB
16dB
SUB
MAIN
GND
AGC
12V
L1004
(AL02)
10uH-K
C1008
103
50V
C1009
100uF
16V
GT101
1P
Q1001
KSC815-Y
R1007
560
R1005
10K
R1006
1K
TU101
TECC0889PA18C
FS/PLL
Z1001
31.9MHz
TRAP
C1007
4.7uF
50V
R1004
5.6K
L101
100-K
(AL03)
C1006
100uF
16V
C1005
104
63V(MP)
AGC
12VB
GND
AFT
SOUND-M
SOUND
33V
5V
SCL
SDA
ADDR
IF2
IF1
C1004
104
63V(MP)
C1003
47uF
50V
R1002
4.7K
R1003
4.7K
C1002
104
63V(MP)
C1001
100uF
16V
L1003
1R0-K
(AL02)
L1002
1R0-K
(AL02)
L1001
1R0-K
(AL02)
M-AFC
C1016
104
63V(MP)
C1015
100uF
16V
SECAM-L. MONO
D/K
AF2. 1.87V
AF1. 1.8V
SOUND-M
0V
PAL-I
QPSK. 2V
12VB
GND
5V
GND
M-NTSC
FRANCE. 0V
AFC. 2.5V
GND
1.7V IDENT(RF)
CVBS
5.1V
AGC
GND
IF. 10V
IF. AGC. 3V
GND
M102
MAIN-IF-MODULE 9PAGE
SYSTEM | S/W
B/G. D/K | 0
I'L/L | 0
4.43 | 0
NTSC-M | 1
AV-A-R 4.2V
GND
AV-A-L 4.5V
GND
RF-IUT-R 2.4V
5V
RF-OUT-L
AF2 1.87V
SECAM-L
AF1 1.8V
QPSK(S/C) 2V
GND
GND
GND
SCL 4V
SDA 4.1V
GND
12VB
GND
A-L-OUT 5.6V
GND
A-R-OUT 5.6V
GND
MIC-IN
M601
AUDIO-MODULE(11PAGE)
L604
10uH-K
(AL03)
C603
100uF
16V
C602
104
63V(MP)
L602
1R0-K
(AL02)
L603
1R0-K
(AL02)
C601
47uF
16V
1N4148
D601
DZ101
KA33V
LP107
JUMPER
(OPTION)
P-AFC
12VB
SDA
SCL
33V
SDA
SCL
CP103
100uF
16V
CP105
10uF
50V
CP104
104
63V(MP)
RP104
4.7K
RP103
4.7K
LP102
10uH-K
(AL03)
CP101
47uF
50V
CP102
104
63V(MP)
RP102
1K
AGC
12VB
SECAM-L
NTSC-M
PIP-S/V
33V
5V
SCL
SDA
ADDR
IF2
IF1
4V
4.1V
LP104
1R0-K
(AL02)
LP103
1R0-K
(AL02)
TUP01
TECC0889PA18C
FS/PLL
PIP-TUNER
TP1
TP2
TP9
TP10
TP11
TP1

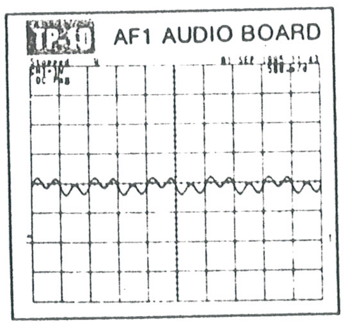

B
FROM. A. PART(TTX. MODULE)
FROM. A(MICOM. PART)
TO-C. PART(VIDEO. CHROMA) TDA4780
TO. D-1PART(SOUND-AMP)
FROM. C. PART
L-OUT
33V
5V
DZ101 KA33V
IC208 TEA5114A
PIP/TTX-F/B
PIP/TTX-B
PIP/TTX-G
PIP/TTX-R
OSD-B
OSD-G
OSD-R
OSD/PIP/TTX-R
OSD/PIP/TTX-G
OSD/PIP/TTX-B
OSD/PIP/TTX-F/B
R2131 220
R2129 220
R2127 220
C2106 224 63V(P)
C2105 224 63V(P)
C2104 224 63V(P)
C2103 224 63V(P)
C2102 224 63V(P)
C2101 224 63V(P)
C2107 104 63V(MP)
C2108 100uF 16V
12VA
TO. A. PART(TTX. MODULE)
TP12
TP13
TP14
P-AFC
12VB
LP108 100uH-K (AL03)
LP107 JUMPER (OPTION)
SDA
SCL
LP106 100-K (AL03)
PIP-R 0.19V
PIP-G 0.19V
PIP-B 0.2V
GND
PIP-F/B 0.12V
R2121 180
HSP 0.5V
H-SYNC
VSP 0.5V
V-SYNC
IF. AGC 3V
IF
GND
AFC 2.5V
NTSC
P-NTSC
SECAN-C
12VB
SECAN-L
AGC
GND
5V
GND
CVBS 1.2V
AV-CVBS
GND
5V
SDA 4.2V
SCL 4.1V
CP105 10uF 50V
CP103 100uF 16V
CP104 104 63V(MP)
RP104 4.7K
RP103 4.7K
AGC
12VB
SECAM-L
NTSC-M
PIP-B/W
33V
5V
SCL
SDA
ADDR
IF2
IF1
4V
4.1V
LP102 10uH-K (AL03)
CP101 47uF 50V
CP102 104 63V(MP)
RP102 1K
LP104 1R0-K (AL02)
LP103 1R0-K (AL02)
LP101 1R0-K (AL02)
LP105 1R0-K (AL02)
CP106 100uF 16V
CP107 104 63V(MP)
CP108 100uF 16V
CP109 104 63V(MP)
CP1010 100uF 16V
CP1011 104 63V(MP)
12VA
TUP01 TECC0989PA19C FS/PLL
PIP-TUNER
TP1
MP01 PIP-MODULE(10PAGE)
FROM. A-2PART(B+PART)
A-1. PART(MICOM. AV-S/W)
FROM. A. PART
2
B

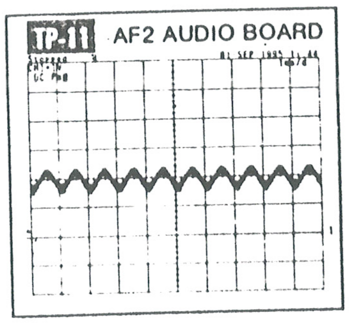
4)PIP-PART

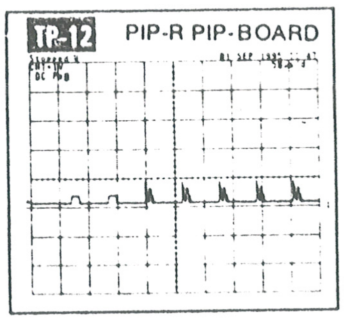

TP-1 TUNER IF

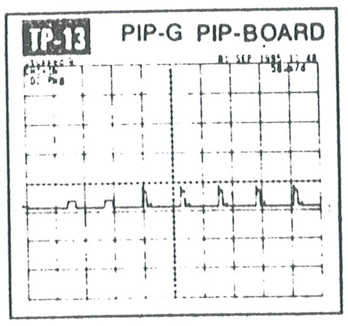

TP-2 IF BOARD CVBS

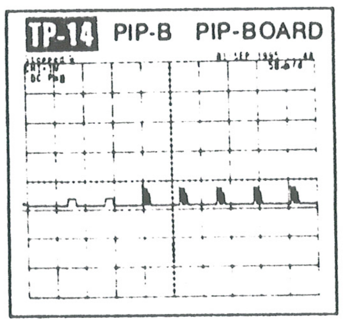

TP-9 SIF AUDIO BOARD


TP-10 AF1 AUDIO BOARD


TP-11 AF2 AUDIO BOARD


TP-12 PIP-R PIP-BOARD

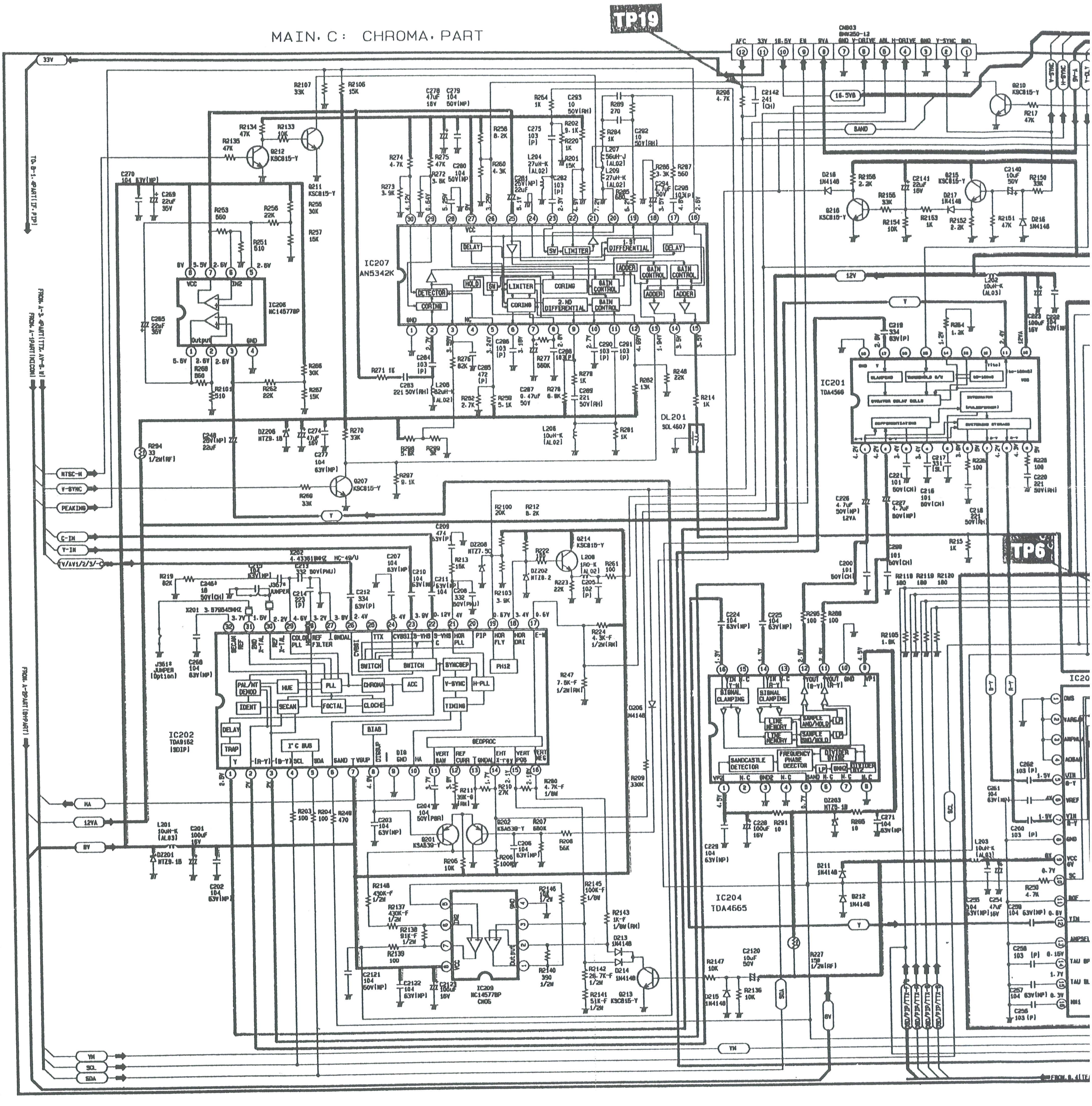

TP-13 PIP-G PIP-BOARD

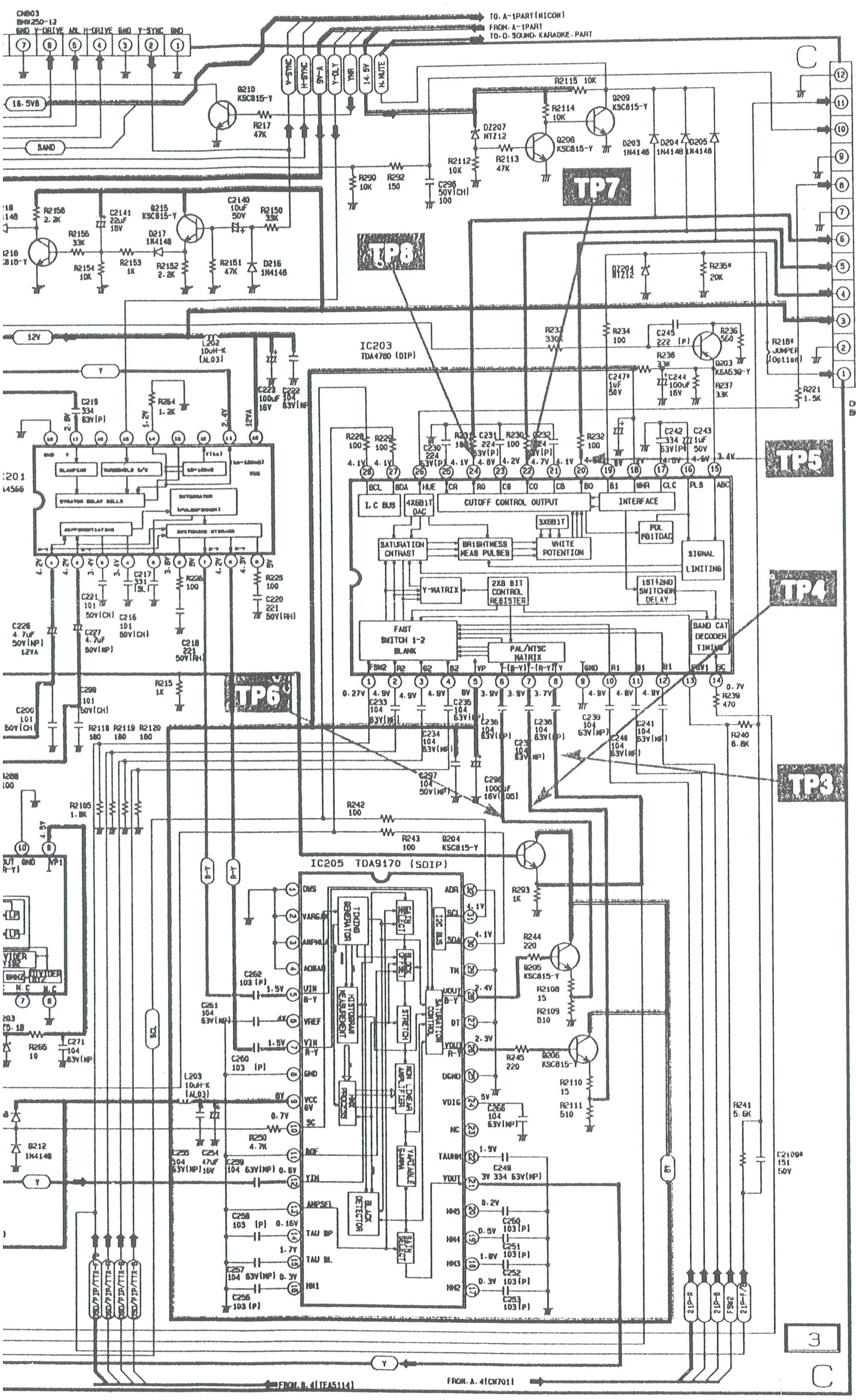

TP-14 PIP-B PIP-BOARD

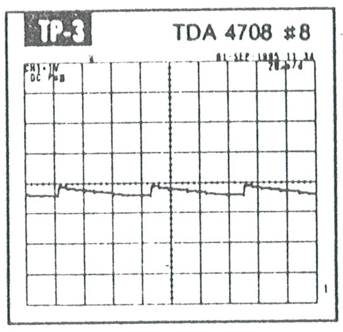
———— : Power Line

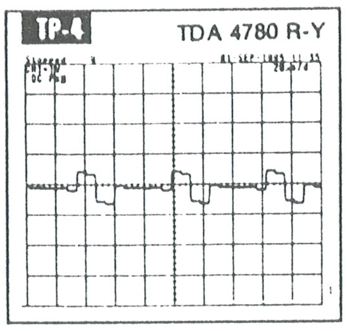
———— : Signal Line

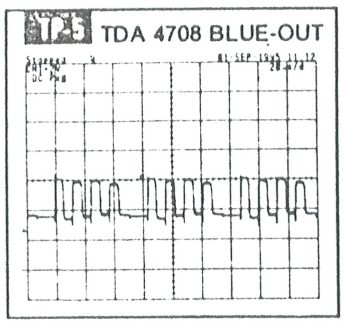
12-3 VIDEO, CHROMA, PEAKING

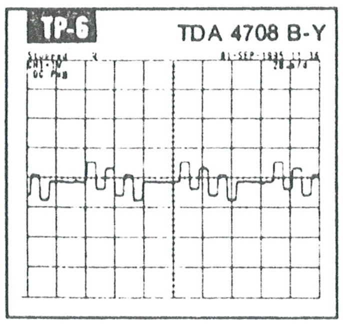

MAIN. C: CHROMA. PART
TP19
TP6
CN803
AFC
33V
16.5V
EW
9VA
V-DRIVE
ABL
H-DRIVE
GND
V-SYNC
IC207
AN5342K
IC205
MC14577BP
IC201
TDA4566
IC202
TDA9162
(SDIP)
IC204
TDA4665
IC209
MC14577BP
DL201
NTSC-M
V-SYNC
PEAKING
C-IN
Y-IN
HA
12VA
8V
YM
SCL
SDA
12V
16.5VB
BAND
Q207 KSC815-Y
Q210 KSC815-Y
Q211 KSC815-Y
Q212 KSC815-Y
Q213 KSC815-Y
Q214 KSC815-Y
Q215 KSC815-Y
Q216 KSC815-Y
Q201 KSA539-Y
Q202 KSA539-Y
X202 4.43361MHZ
X201 3.579545MHZ
J361 JUMPER (Option)
L201 10uH-K (AL03)
C201 100uF 16V
C260 104 63V(NP)

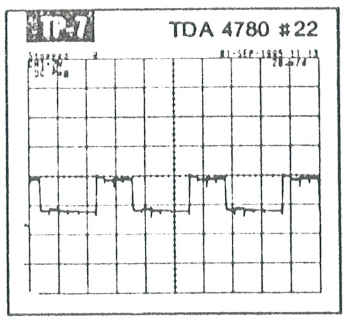

CN803
BMW250-12
TO. A-1PART(MICOM)
FROM. A-1PART
TO. D. SOUND. KARAOKE. PART
C
Y-SYNC
H-SYNC
SY-A
Y-DLY
YMR
14.5V
H.MUTE
Q210 KSC815-Y
Q209 KSC815-Y
Q208 KSC815-Y
Q215 KSC815-Y
DZ207 MTZ12
TP7
TP8
TP5
TP4
TP6
TP3
12V
IC203 TDA4780 (DIP)
CN203 BMW250-12
TO-CRT. BOARD
GND
F/B(SVM)
Y(SVM)
GND
NS/CO
GND
R
G
B
12V
GND
CUT-OFF
Q203 KSA530-Y
I.C BUS
4X6BIT DAC
CUTOFF CONTROL OUTPUT
INTERFACE
3X6BIT
PDL 6BITDAC
SATURATION CNTRAST
BRIGHTNESS MEAS PULSES
WHITE POTENTION
SIGNAL LIMITING
Y-MATRIX
2X8 BIT CONTROL REGISTER
1ST/2ND SWITCHON DELAY
FAST SWITCH 1-2 BLANK
PAL/NTSC MATRIX
SAND CAT DECODER TIMING
IC205 TDA9170 (SDIP)
Q204 KSC815-Y
Q205 KSC815-Y
Q206 KSC815-Y
HISTOGRAM MEASUREMENT
STRETCH
SATURATION CONTROL
NON LINEAR AMPLIFIER
VARIABLE GAMMA
BLACK DETECTOR
L203 10uH-K (AL03)
L202 10uH-K (AL03)
3
FROM. B. 4(TEA5114)
FROM. A. 4(CN701)
C

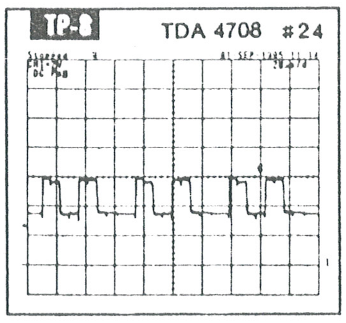


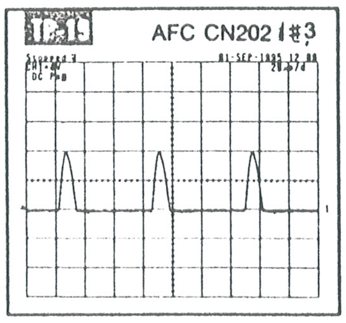








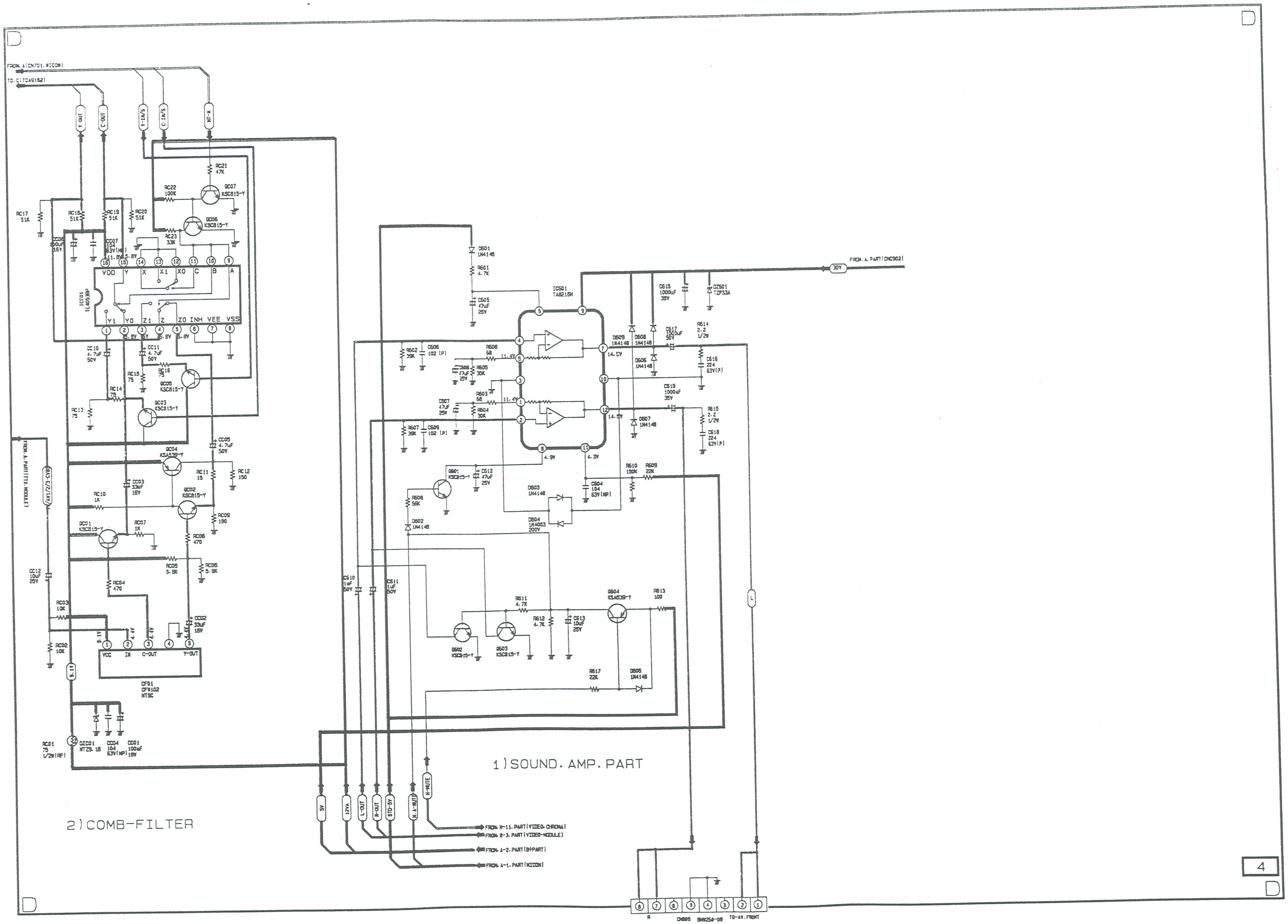




————: Power Line

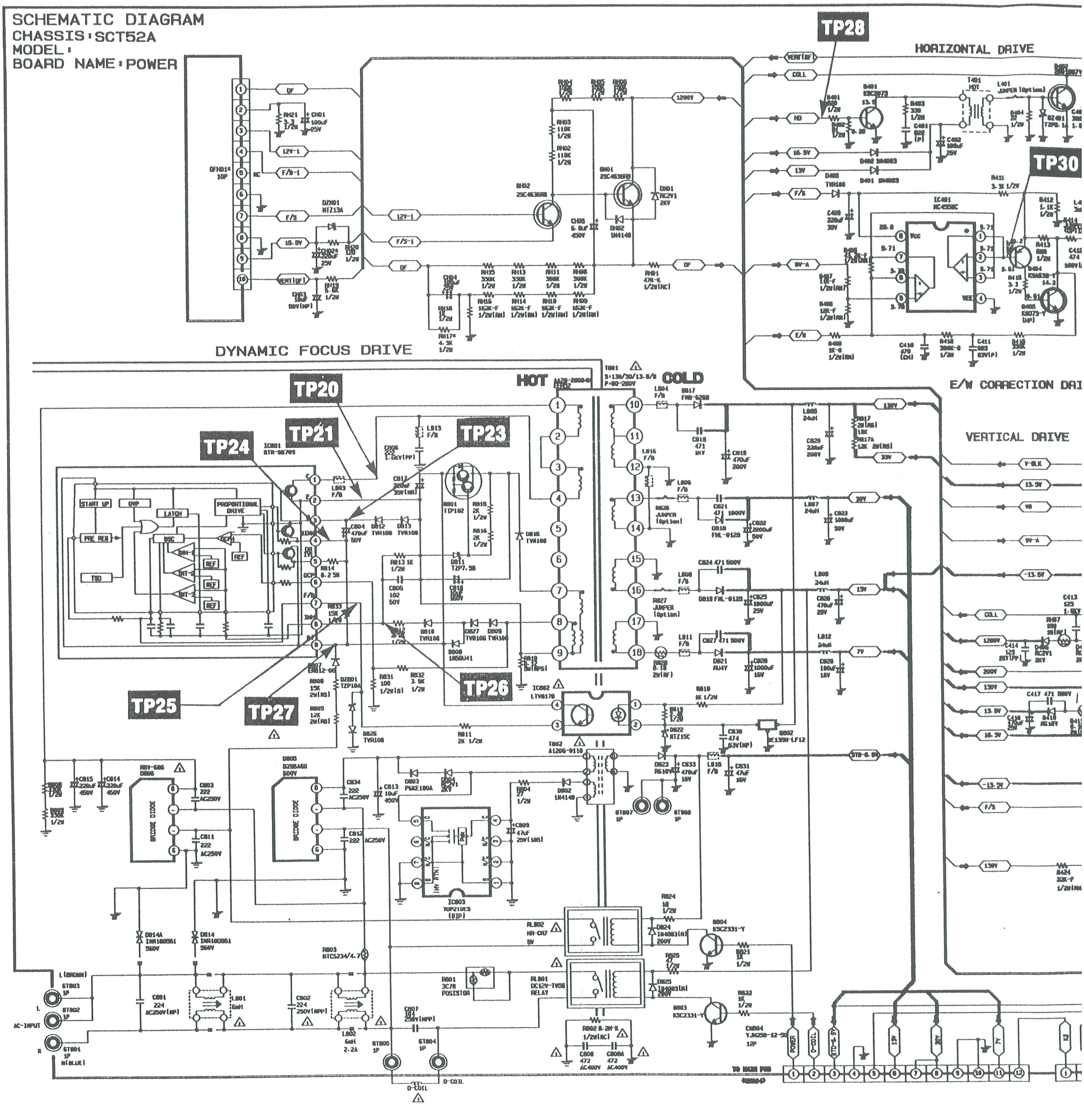
————: Signal Line

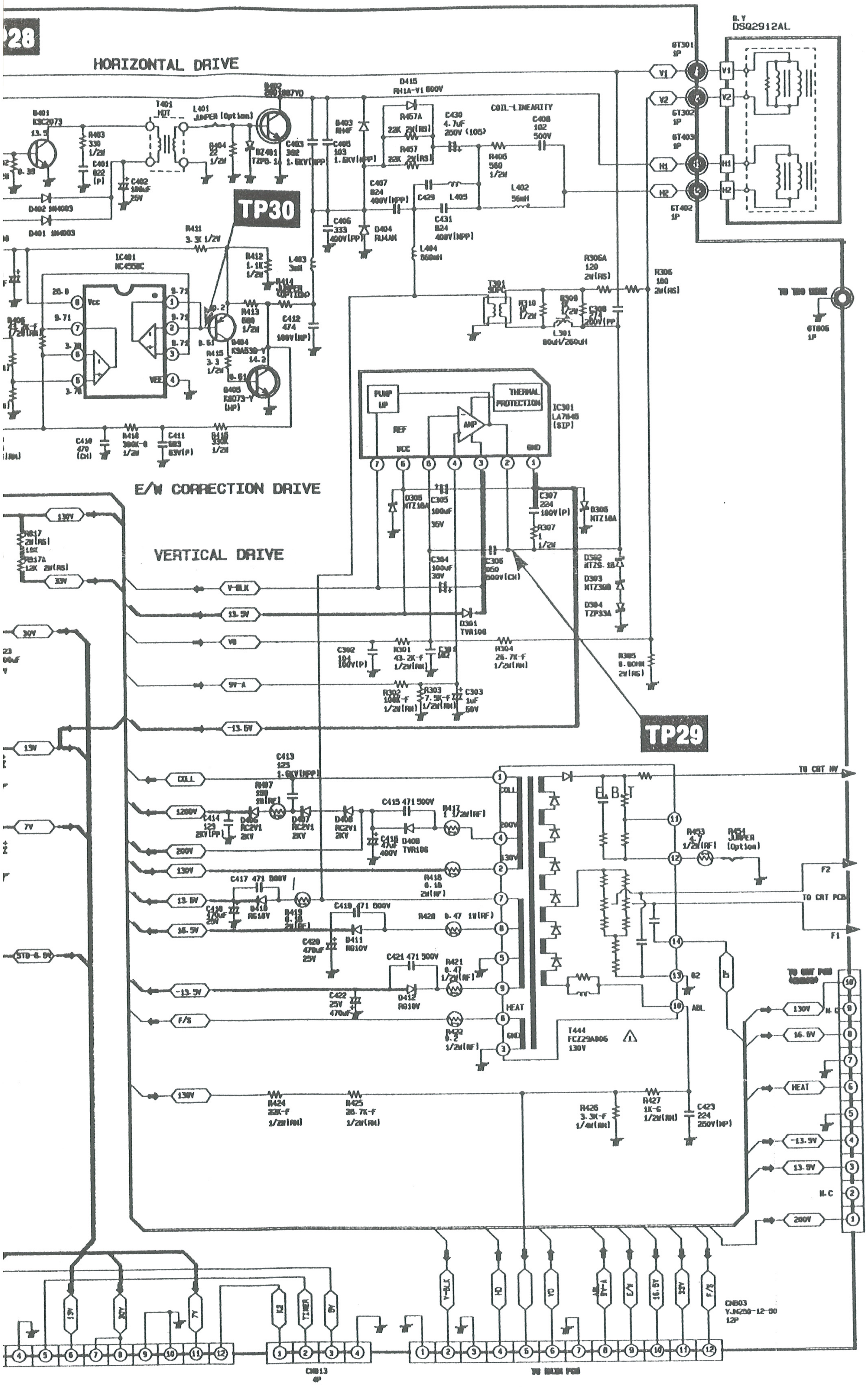
12-4 SOUND

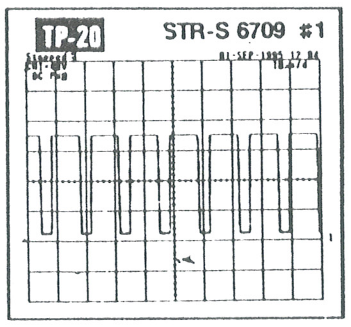

D
FROM. A(CN701. MICOM)
TO. C(TDA9162)
Y-OUT
C-OUT
Y-IN/S
C-IN/S
NT-M
RC21 47K
RC22 100K
QC07 KSC815-Y
QC06 KSC815-Y
RC23 33K
RC17 51K
RC18 51K
RC19 51K
RC20 51K
CC06 100uF 16V
CC07 104 63V(MP)
11.8V
5.8V
VDD Y X X1 X0 C B A
ICC01 TC4053BP
Y1 Y0 Z1 Z Z0 INH VEE VSS
5.8V
5V
5.8V
5.8V
CC10 4.7uF 50V
CC11 4.7uF 50V
RC16 75
RC15 75
QC05 KSC815-Y
RC14 75
RC13 75
QC03 KSC815-Y
CC05 4.7uF 50V
QC04 KSA539-Y
RC11 15
RC12 150
FROM. A. PART(TTX. MODULE)
AV1/2/3-CVBS
CC03 33uF 16V
RC10 1K
QC02 KSC815-Y
RC09 180
QC01 KSC815-Y
RC07 1K
RC08 470
RC05 5.6K
RC06 5.6K
CC12 10uF 25V
RC04 470
RC03 10K
RC02 10K
9.1V
4.4V
4.4V
4.4V
VCC IN C-OUT Y-OUT
CF01 CFM102 NTSC
9.1V
RC01 75 1/2W(RF)
DZC01 NTZS.1B
CC04 104 63V(MP)
CD01 100uF 16V
2) COMB-FILTER
D601 1N4148
R601 4.7K
C605 47uF 25V
IC601 TA8216H
FROM. A. PART(CMC902)
30V
C615 1000uF 35V
DZ601 TZP33A
R614 2.2 1/2W
C617 1000uF 50V
D609 1N4148
D608 1N4148
14.5V
D606 1N4148
C616 224 63V(P)
R602 39K
C606 102 (P)
R606 68
11.4V
C608 47uF 25V
R605 30K
R603 68
11.4V
C607 47uF 25V
R604 30K
C619 1000uF 35V
R615 2.2 1/2W
14.5V
D607 1N4148
C618 224 63V(P)
R607 39K
C609 102 (P)
4.9V
4.3V
Q601 KSC815-Y
C612 47uF 25V
R610 150K
R609 22K
C604 104 63V(MP)
R608 56K
D603 1N4148
D604 1N4003 200V
D602 1N4148
C610 1uF 50V
C611 1uF 50V
R611 4.7K
Q604 KSA539-Y
R613 100
R612 4.7K
C613 10uF 25V
Q602 KSC815-Y
Q603 KSC815-Y
R617 22K
D605 1N4148
L
1) SOUND. AMP. PART
5V
12VA
L-OUT
R-OUT
STD-5V
M. A-MUTE
H-MUTE
FROM. H-11. PART(VIDEO. CHROMA)
FROM. B-3. PART(VIDEO-MODULE)
FROM. A-2. PART(B+PART)
FROM. A-1. PART(MICOM)
R
CN605 BMW250-08 TO-AV. FRONT
4

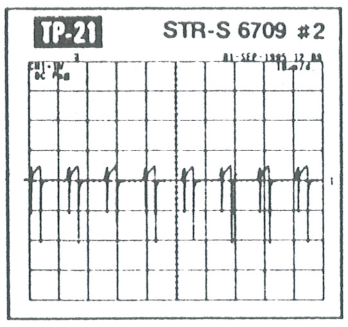
———: Power Line
———: Signal Line

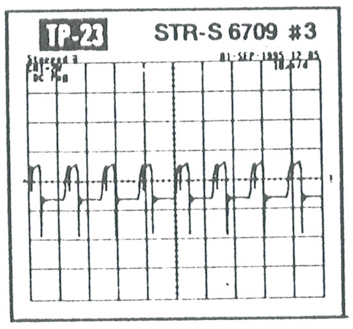
12-5 ASSY-PWB, POWER

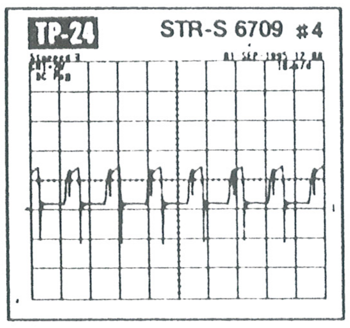

SCHEMATIC DIAGRAM
CHASSIS:SCT52A
MODEL:
BOARD NAME:POWER
TP28
HORIZONTAL DRIVE
TP30
DYNAMIC FOCUS DRIVE
E/W CORRECTION DRI
VERTICAL DRIVE
HOT
COLD
TP20
TP21
TP23
TP24
TP25
TP26
TP27
IC801 STR-S6709
START UP
OVP
LATCH
PROPORTIONAL DRIVE
PRE REG
OSC
REF
TSD
IC401 KA4558C
IC802 LTV817B
IC803 TOP210Y3 (DIP)
BRIDGE DIODE
RL801 DC12V-TV5S RELAY
RL802 HR-CR7 5V
R801 3C7R POSISTOR
Q804 KSC2331-Y
Q803 KSC2331-Y
Q801 TIP102
QH02 2SC4636RB
QH01 2SC4636RB
Q401 KSC2073
DFH014 10P
CN804 YJ6250-12-5P 12P
TO MAIN PWB
AC-INPUT
L (BROWN)
N (BLUE)
D-COIL
POWER
D-COIL
STB-6.6V
13V
30V
7V
12
1200V
12V-1
F/B-1
F/S
F/S-1
DF
13.5V
VERT(DF)
COLL
HD
16.5V
5V-A
E/W
V-BLK
VD
-13.5V
200V
130V
-13.5V

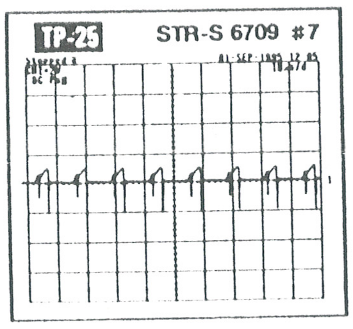

28
HORIZONTAL DRIVE
E/W CORRECTION DRIVE
VERTICAL DRIVE
TP30
TP29
D.Y
DSQ2912AL
IC401
KC4558C
IC301
LA7845
(SIP)
PUMP UP
THERMAL PROTECTION
REF
AMP
VCC
GND
COIL-LINEARITY
T401
HDT
Q401
KSC2073
T444
FCZ29A006
130V
TO CRT HV
TO CRT PCB
F2
F1
ABL
HEAT
GND
COLL
V-BLK
13.5V
VD
5V-A
-13.5V
130V
33V
30V
7V
200V
1200V
16.5V
F/S
STD-6.5V
CN01
10P
CN003
YJH250-12-00
12P
CN013
4P
TO MAIN PCB
V1
V2
H1
H2
GT301
GT302
GT403
GT402
GT805
TO TOO HIGH

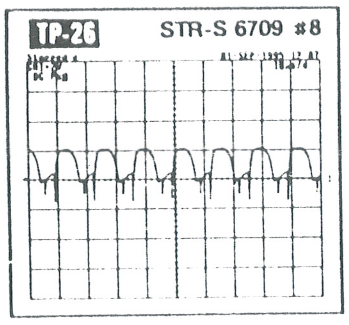

TP-20 STR-S 6709 #1

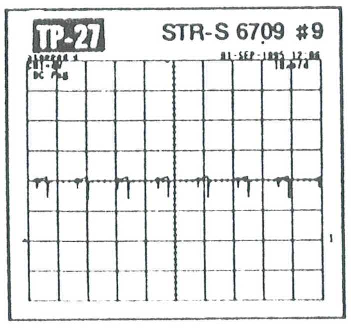

TP-21 STR-S 6709 #2

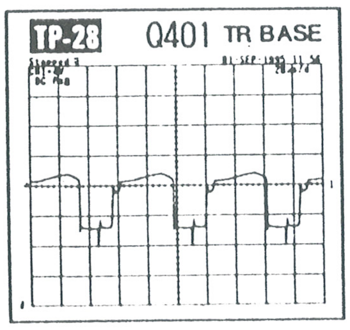

TP-23 STR-S 6709 #3

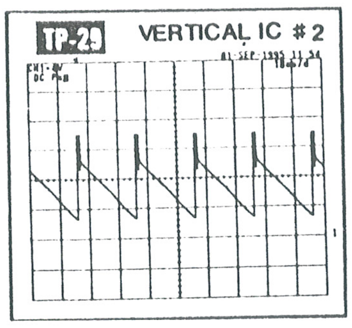

TP-24 STR-S 6709 #4

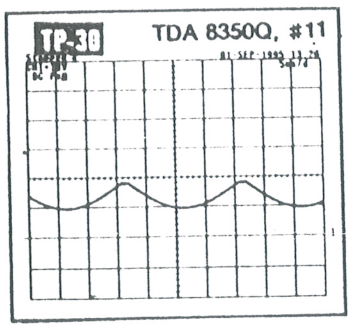

TP-25 STR-S 6709 #7


TP-26 STR-S 6709 #8


TP-27 STR-S 6709 #9

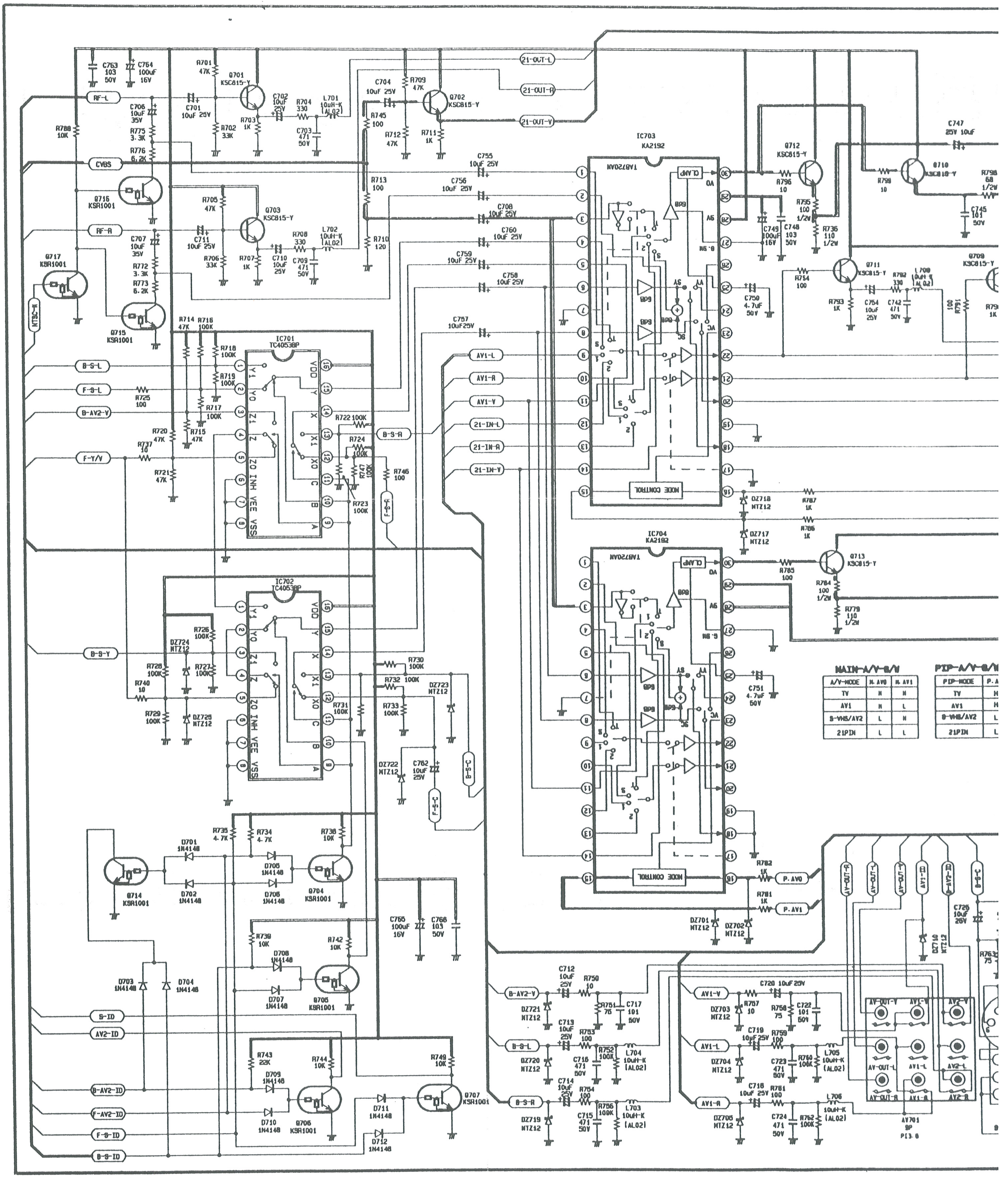

TP-28 Q401 TR BASE


TP-29 VERTICAL IC #2

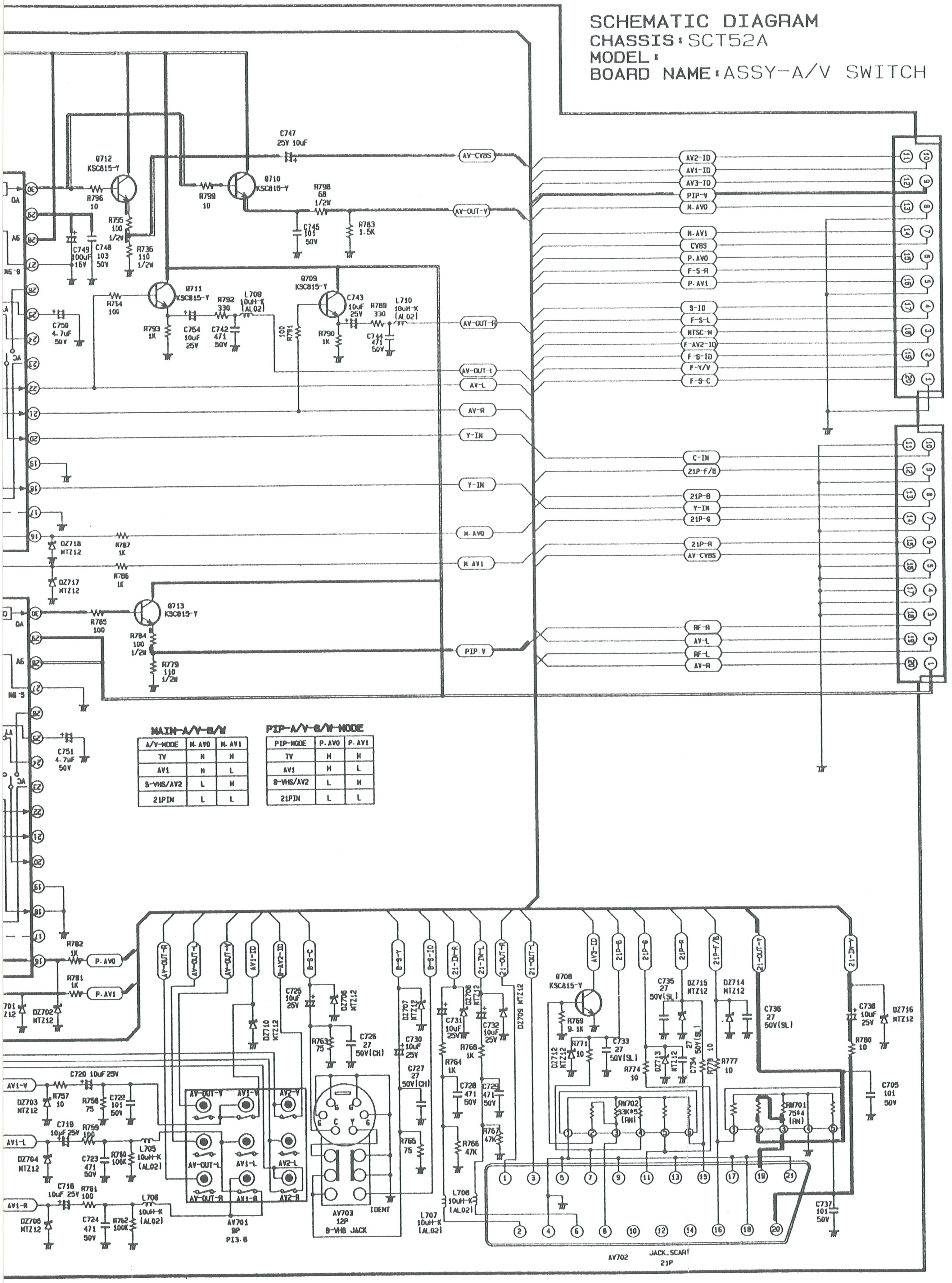

TP-30 TDA 8350Q, #11

———— : Power Line

2-6 A/V-SWITCHING


IC701 TC4053BP
IC702 TC4053BP
IC703 KA2192
IC704 KA2192
TA8720AN
CLAMP
MODE CONTROL
Q701 KSC815-Y
Q702 KSC815-Y
Q703 KSC815-Y
Q704 KSR1001
Q705 KSR1001
Q706 KSR1001
Q707 KSR1001
Q709 KSC815-Y
Q710 KSC815-Y
Q711 KSC815-Y
Q712 KSC815-Y
Q713 KSC815-Y
Q714 KSR1001
Q715 KSR1001
Q716 KSR1001
Q717 KSR1001
RF-L
CVBS
RF-R
NTSC-M
B-S-L
F-S-L
B-AV2-V
F-Y/V
B-S-R
F-S-C
B-S-Y
B-S-C
S-ID
AV2-ID
B-AV2-ID
F-AV2-ID
F-S-ID
B-S-ID
21-OUT-L
21-OUT-R
21-OUT-V
AV1-L
AV1-R
AV1-V
21-IN-L
21-IN-R
21-IN-V
P.AV0
P.AV1
B-AV2-V
B-AV2-L
B-AV2-R
MAIN-A/V-S/W
A/V-MODE
TV
AV1
S-VHS/AV2
21PIN
PIP-A/V-S/W
PIP-MODE
AV-OUT-V
AV-OUT-L
AV-OUT-R
AV1-V
AV1-L
AV1-R
AV2-V
AV2-L
AV2-R
AV701
PI3-0

SCHEMATIC DIAGRAM
CHASSIS:SCT52A
MODEL:
BOARD NAME:ASSY-A/V SWITCH


Q712 KSC815-Y
Q710 KSC815-Y
Q711 KSC815-Y
Q709 KSC815-Y
Q713 KSC815-Y
Q708 KSC815-Y
C747 25V 10uF
AV-CVBS
AV-OUT-V
AV-OUT-R
AV-OUT-L
AV-L
AV-R
Y-IN
M.AVO
M.AV1
PIP.V
P.AVO
P.AV1
AV2-ID
AV1-ID
AV3-ID
PIP-V
CVBS
F-S-R
S-ID
F-S-L
NTSC-M
F-AV2-ID
F-S-ID
F-Y/V
F-S-C
CN702 20P
C-IN
21P-F/B
21P-B
21P-G
21P-R
RF-R
AV-L
RF-L
AV-R
CN701 20P
AV701 9P PI3.5
AV703 12P S-VHS JACK
IDENT
AV702 JACK_SCART 21P
RN702 33K*5 (RN)
RN701 75*4 (RN)

MAIN-A/V-S/W

A/V-MODE	M.AV0	M.AV1
TV	H	H
AV1	H	L
S-VHS/AV2	L	H
21PIN	L	L

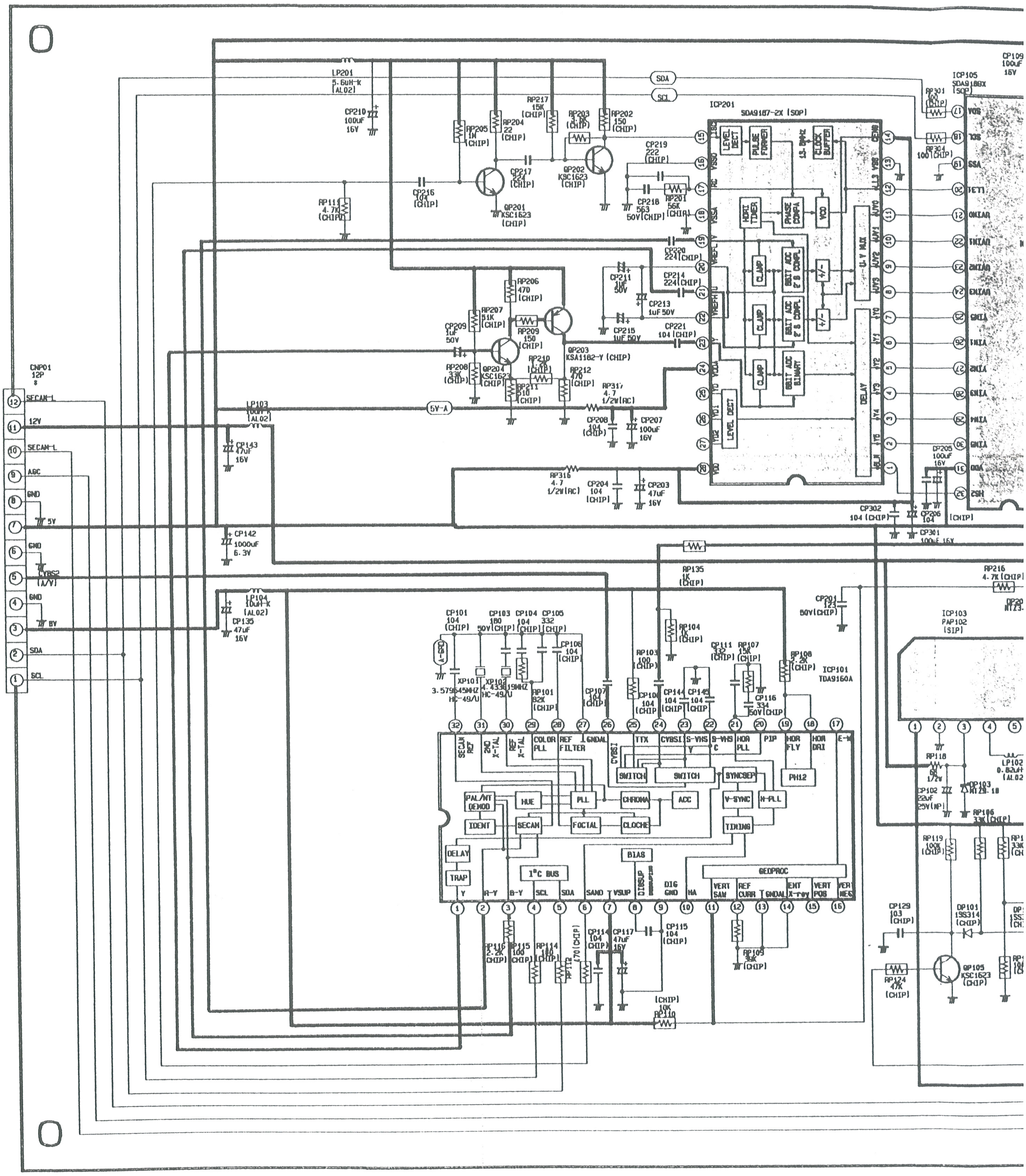
PIP-A/V-S/W-MODE

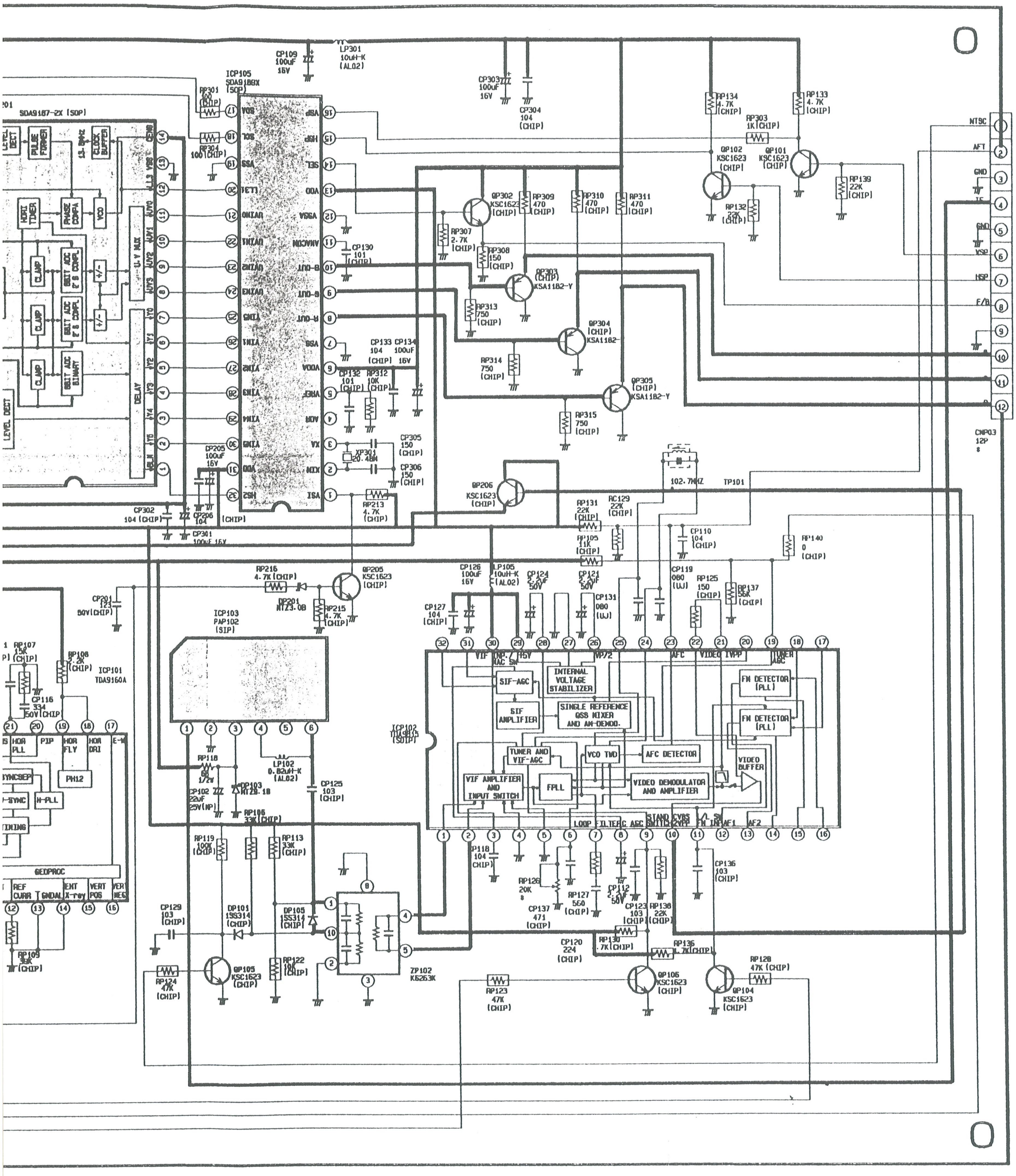
PIP-MODE	P.AV0	P.AV1
TV	H	H
AV1	H	L
S-VHS/AV2	L	H
21PIN	L	L

——————: Signal Line

12-7 PIP

SCHEMATIC DIAGRAM
CHASSIS: SCT52A
MODEL:
BOARD NAME: PWB-PIP

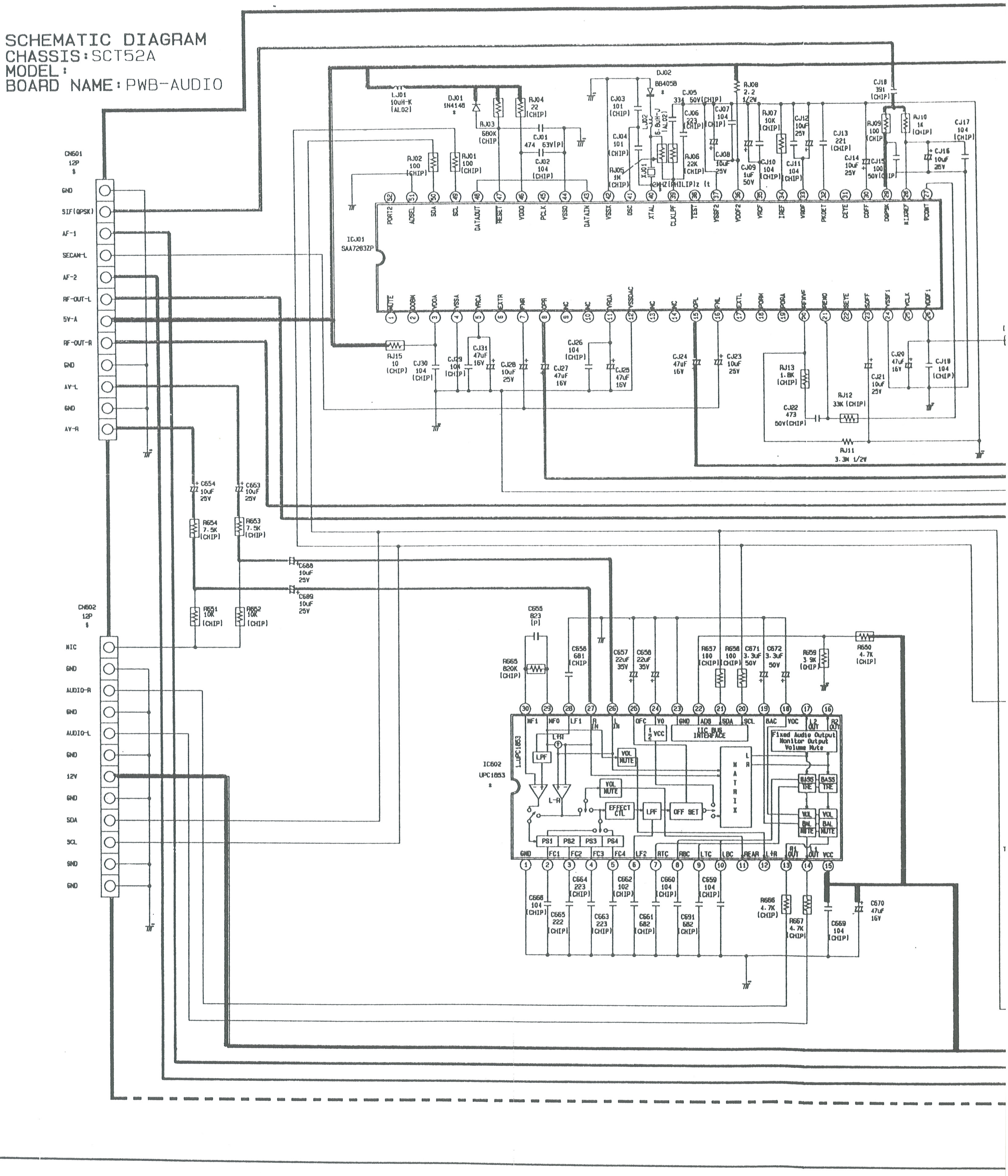

CNP01 12P
SECAM-L
12V
SECAM-L
AGC
GND
5V
GND
CVBS2 (A/V)
GND
8V
SDA
SCL
LP201 5.6uH-K (AL02)
CP210 100uF 16V
RP205 1N (CHIP)
RP204 22 (CHIP)
RP217 15K (CHIP)
RP203 (CHIP)
RP202 150 (CHIP)
QP201 KSC1623 (CHIP)
QP202 KSC1623 (CHIP)
CP217 224 (CHIP)
CP216 104 (CHIP)
RP111 4.7K (CHIP)
CP219 222 (CHIP)
CP218 563 50V (CHIP)
RP201 56K (CHIP)
ICP201 SDA9187-2X (SOP)
LEVEL DECT
PULSE FORMER
13.5MHz
CLOCK BUFFER
HORI TIMER
PHASE COMPA
VCO
CLAMP
6BIT ADC 2'S COMPL
8BIT ADC BINARY
U/V MUX
DELAY
LEVEL DECT
CP220 224 (CHIP)
CP211 1uF 50V
CP214 224 (CHIP)
CP213 1uF 50V
CP215 1uF 50V
CP221 104 (CHIP)
RP206 470 (CHIP)
RP207 51K (CHIP)
RP209 150 (CHIP)
QP203 KSA1182-Y (CHIP)
CP209 1uF 50V
RP208 33K (CHIP)
QP204 KSC1623 (CHIP)
RP210 (CHIP)
RP211 (CHIP)
RP212 470 (CHIP)
RP317 4.7 1/2W (RC)
5V-A
LP103 (AL02)
CP143 47uF 16V
CP208 104 (CHIP)
CP207 100uF 16V
RP316 4.7 1/2W (RC)
CP204 104 (CHIP)
CP203 47uF 16V
CP142 1000uF 6.3V
LP104 10uH-K (AL02)
CP135 47uF 16V
ICP105 SDA9188X (SOP)
CP109 100uF 16V
RP301 100 (CHIP)
RP304 100 (CHIP)
CP205 100uF 16V
CP206 104
CP302 104 (CHIP)
CP301 100uF 16V
RP135 1K (CHIP)
RP216 4.7K (CHIP)
CP201 123 50V (CHIP)
ICP103 PAP102 (SIP)
CP101 104 (CHIP)
CP103 180 50V (CHIP)
CP104 104 (CHIP)
CP105 332 (CHIP)
CP106 104 (CHIP)
XP101 3.579545MHZ HC-49/U
XP102 4.433619MHZ HC-49/U
RP101 82K (CHIP)
CP107 104 (CHIP)
RP103 100 (CHIP)
RP104 1K (CHIP)
CP108 104 (CHIP)
CP144 104 (CHIP)
CP145 104 (CHIP)
CP111 332 (CHIP)
RP107 15K (CHIP)
CP116 334 50V (CHIP)
RP108 8.2K (CHIP)
ICP101 TDA9160A
SECAM REF
2ND X-TAL
REF X-TAL
COLOR PLL
REF FILTER
GNDAL
CVBS1
TTX
CVBS1
S-VHS Y
S-VHS C
HOR PLL
PIP
HOR FLY
HOR DRI
E-W
SWITCH
SWITCH
SYNCSEP
PH12
PAL/NT DEMOD
HUE
PLL
CHROMA
ACC
V-SYNC
H-PLL
IDENT
SECAM
FOCTAL
CLOCHE
TIMING
DELAY
TRAP
I²C BUS
BIAS
GEOPROC
Y
R-Y
B-Y
SCL
SDA
SAND
VSUP
DIG GND
HA
VERT SAW
REF CURR
GNDAL
EHT X-ray
VERT POS
VER NEG
RP116 2.2K (CHIP)
RP115 100 (CHIP)
RP114 180 (CHIP)
RP112
CP114 104 (CHIP)
CP117 47uF 16V
CP115 104 (CHIP)
RP109 39K (CHIP)
RP110 10K (CHIP)
RP118 1/2W
CP102 22uF 25V (NP)
DP103
RP106 33K (CHIP)
LP102 (AL02)
RP119 100K (CHIP)
CP129 103 (CHIP)
DP101 1SS314 (CHIP)
QP105 KSC1623 (CHIP)
RP124 47K (CHIP)


ICP105
SDA9188X
(SOP)
SDA9187-2X (SOP)
ICP103
PAP102
(SIP)
ICP101
TDA9160A
ICP102
TDA9815
(SDIP)
CP109
100uF
16V
LP301
10uH-K
(AL02)
RP301
RP304
100(CHIP)
CP303
100uF
16V
CP304
104
(CHIP)
RP134
4.7K
(CHIP)
RP133
4.7K
(CHIP)
RP303
1K(CHIP)
QP102
KSC1623
(CHIP)
QP101
KSC1623
(CHIP)
RP139
22K
(CHIP)
RP132
22K
(CHIP)
QP302
KSC1623
(CHIP)
RP309
470
(CHIP)
RP310
470
(CHIP)
RP311
470
(CHIP)
RP307
2.7K
(CHIP)
RP308
150
(CHIP)
QP303
(CHIP)
KSA1182-Y
RP313
750
(CHIP)
QP304
(CHIP)
KSA1182-
RP314
750
(CHIP)
QP305
(CHIP)
KSA1182-Y
RP315
750
(CHIP)
CP130
101
(CHIP)
CP133
104
(CHIP)
CP134
100uF
16V
CP132
101
(CHIP)
RP312
10K
(CHIP)
CP305
150
(CHIP)
XP301
20.48M
CP306
150
(CHIP)
RP213
4.7K
(CHIP)
CP205
100uF
16V
CP206
104
CP302
104 (CHIP)
CP301
100uF 16V
QP206
KSC1623
(CHIP)
RP131
22K
(CHIP)
RC129
22K
(CHIP)
RP105
11K
(CHIP)
CP110
104
(CHIP)
RP140
0
(CHIP)
102.7MHZ
TP101
CNP03
12P
NTSC
AFT
GND
IF
GND
VSP
HSP
F/B
RP216
4.7K (CHIP)
DP204
MTZ3.0B
RP215
4.7K
(CHIP)
QP205
KSC1623
(CHIP)
CP201
123
50V(CHIP)
CP126
100uF
16V
LP105
10uH-K
(AL02)
CP124
2.2uF
50V
CP121
2.2uF
50V
CP127
104
(CHIP)
CP131
080
(UJ)
CP119
080
(UJ)
RP125
150
(CHIP)
RP137
56K
(CHIP)
RP107
15K
(CHIP)
RP108
2.2K
(CHIP)
CP116
334
50V
(CHIP)
LEVEL DECT
PULSE FORMER
13.5MHz CLOCK BUFFER
HORI TIMER
PHASE COMPA
VCO
CLAMP
8BIT ADC 2'S COMPL
8BIT ADC BINARY
DELAY
LEVEL DECT
VIF
INT. AAC SW
15V
VP/2
AFC
VIDEO
TVPP
TUNER AGC
SIF-AGC
INTERNAL VOLTAGE STABILIZER
SIF AMPLIFIER
SINGLE REFERENCE QSS MIXER AND AM-DEMOD.
FM DETECTOR (PLL)
FM DETECTOR (PLL)
TUNER AND VIF-AGC
VCO TWD
AFC DETECTOR
VIDEO BUFFER
VIF AMPLIFIER AND INPUT SWITCH
FPLL
VIDEO DEMODULATOR AND AMPLIFIER
LOOP FILTER
AGC
STAND SWITCH
CVBS
AF1
AF2
HOR PLL
PIP
HOR FLY
HOR DRI
SYNCSEP
V-SYNC
H-PLL
PH12
TIMING
GEOPROC
REF CURR
GNDAL
EHT X-ray
VERT POS
VERT NEG
RP118
68
1/2W
LP102
0.82uH-K
(AL02)
CP102
22uF
25V(NP)
DP103
MTZ3.1B
CP125
103
(CHIP)
RP106
33K(CHIP)
RP119
100K
(CHIP)
RP113
33K
(CHIP)
CP129
103
(CHIP)
DP101
1SS314
(CHIP)
DP105
1SS314
(CHIP)
RP109
33K
(CHIP)
QP105
KSC1623
(CHIP)
RP124
47K
(CHIP)
RP122
10K
(CHIP)
ZP102
K6263K
CP118
104
(CHIP)
RP126
20K
CP137
471
(CHIP)
RP127
560
(CHIP)
CP112
2.2uF
50V
CP123
103
(CHIP)
RP138
22K
(CHIP)
CP136
103
(CHIP)
CP120
224
(CHIP)
RP130
4.7K(CHIP)
RP136
4.7K(CHIP)
RP128
47K (CHIP)
RP123
47K
(CHIP)
QP106
KSC1623
(CHIP)
QP104
KSC1623
(CHIP)

: Power Line

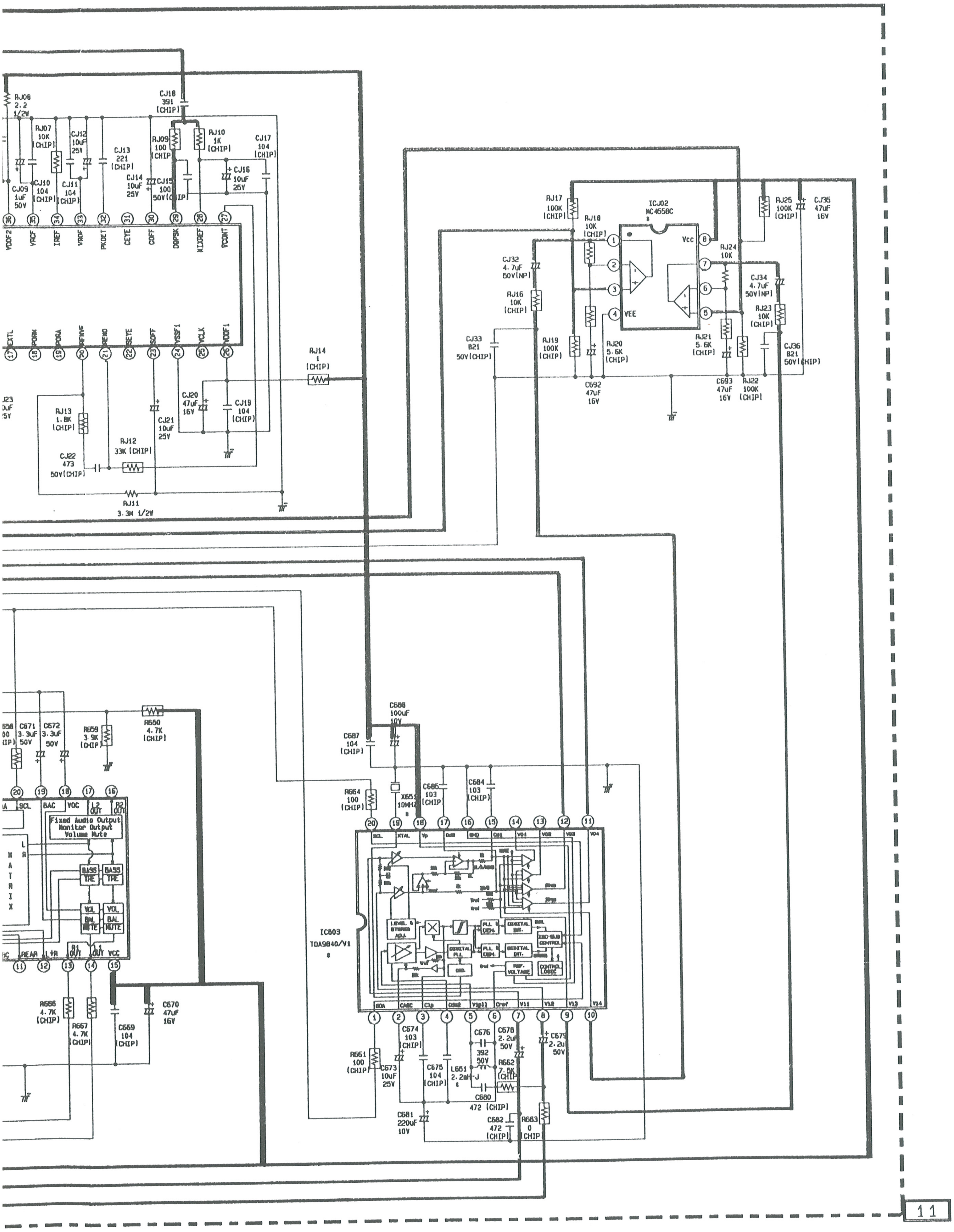
: Signal Line

-8 AUDIO



SCHEMATIC DIAGRAM
CHASSIS: SCT52A
MODEL:
BOARD NAME: PWB-AUDIO

CN601
12P
GND
SIF(QPSK)
AF-1
SECAM-L
AF-2
RF-OUT-L
5V-A
RF-OUT-R
GND
AV-L
GND
AV-R
ICJ01
SAA7283ZP
LJ01 10uH-K (AL02)
DJ01 1N4148
RJ04 22 (CHIP)
RJ03 680K (CHIP)
CJ01 474 63V(P)
CJ02 104 (CHIP)
RJ02 100 (CHIP)
RJ01 100 (CHIP)
DJ02 BB405B
CJ03 101 (CHIP)
CJ04 101 (CHIP)
RJ05 1M (CHIP)
LJ02 6.8uH-J (AL02)
XJ01
CJ05 334 50V(CHIP)
CJ06 223 (CHIP)
RJ06 22K (CHIP)
CJ07 104 (CHIP)
CJ08 10uF 25V
RJ08 2.2 1/2W
CJ09 1uF 50V
RJ07 10K (CHIP)
CJ10 104 (CHIP)
CJ12 10uF 25V
CJ11 104 (CHIP)
CJ13 221 (CHIP)
CJ14 10uF 25V
CJ15 100 50V(CHIP)
RJ09 100 (CHIP)
CJ18 391 (CHIP)
RJ10 1K (CHIP)
CJ16 10uF 25V
CJ17 104 (CHIP)
PORT2
ADSEL
SDA
SCL
DATAOUT
RESET
VDDD
PCLK
VSSD
DATAIN
VSSX
OSC
XTAL
CLKLPF
TEST
VSSF2
VDDF2
VREF
IREF
VBGF
PKDET
CETE
COFF
DOPSK
MLDPST
PCOUT
MUTE
DOBM
VDDA
VSSA
VRCA
EXTR
PNR
OPR
NC
VRDA
VSSDAC
OPL
PNL
EXTL
PODM
PODA
REFAMS
REMO
SEYE
SOFF
VSSF1
VCLK
VDDF1
RJ15 10 (CHIP)
CJ30 104 (CHIP)
CJ29 104 (CHIP)
CJ31 47uF 16V
CJ28 10uF 25V
CJ27 47uF 16V
CJ26 104 (CHIP)
CJ25 47uF 16V
CJ24 47uF 16V
CJ23 10uF 25V
RJ13 1.8K (CHIP)
CJ22 473 50V(CHIP)
RJ12 33K (CHIP)
CJ21 10uF 25V
CJ20 47uF 16V
CJ19 104 (CHIP)
RJ11 3.3M 1/2W
C654 10uF 25V
C653 10uF 25V
R654 7.5K (CHIP)
R653 7.5K (CHIP)
C688 10uF 25V
C689 10uF 25V
R651 10K (CHIP)
R652 10K (CHIP)
CN602
12P
MIC
GND
AUDIO-R
GND
AUDIO-L
GND
12V
GND
SDA
SCL
GND
GND
C655 823 (P)
R665 820K (CHIP)
C656 681 (CHIP)
C657 22uF 35V
C658 22uF 35V
R657 100 (CHIP)
R658 100 (CHIP)
C671 3.3uF 50V
C672 3.3uF 50V
R659 3.9K (CHIP)
R650 4.7K (CHIP)
IC602
UPC1853
NF1
NFO
LF1
R IN
L IN
OFC
VO
GND
ADS
SDA
SCL
BAC
VOC
L2 OUT
R2 OUT
1/2 VCC
I2C BUS INTERFACE
Fixed Audio Output
Monitor Output
Volume Mute
LPF
L+R
VOL MUTE
L-R
EFFECT CTL
OFF SET
MATRIX
BASS TRE
VOL BAL MUTE
PS1
PS2
PS3
PS4
FC1
FC2
FC3
FC4
LF2
RTC
RBC
LTC
LBC
REAR
L+R
R1 OUT
L1 OUT
VCC
C668 104 (CHIP)
C665 222 (CHIP)
C664 223 (CHIP)
C663 223 (CHIP)
C662 102 (CHIP)
C661 682 (CHIP)
C660 104 (CHIP)
C691 682 (CHIP)
C659 104 (CHIP)
R666 4.7K (CHIP)
R667 4.7K (CHIP)
C669 104 (CHIP)
C670 47uF 16V

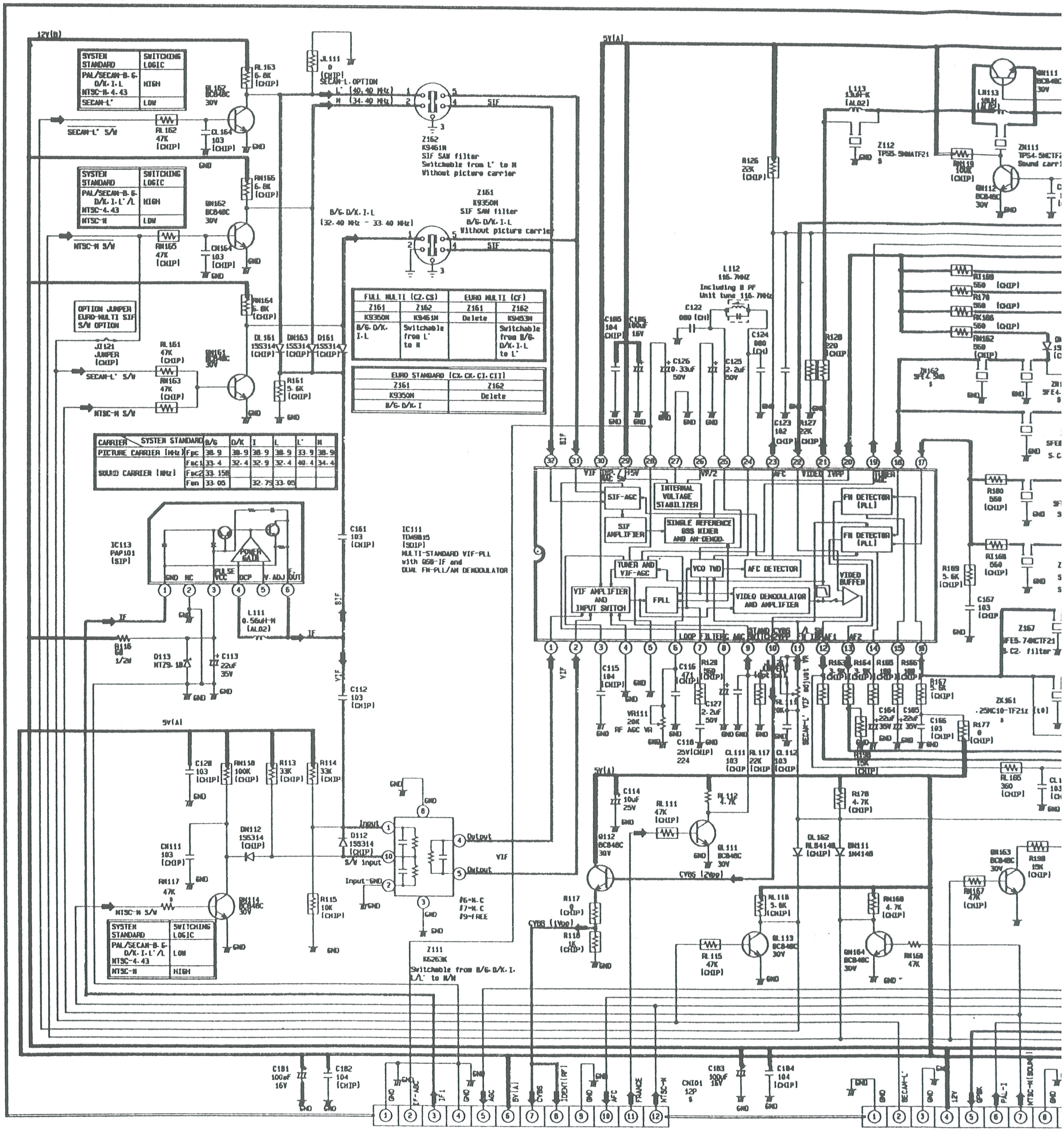

RJ08
2.2
1/2W
RJ07
10K
(CHIP)
CJ12
10uF
25V
CJ13
221
(CHIP)
CJ18
391
(CHIP)
RJ09
100
(CHIP)
RJ10
1K
(CHIP)
CJ17
104
(CHIP)
CJ16
10uF
25V
CJ09
1uF
50V
CJ10
104
(CHIP)
CJ11
104
(CHIP)
CJ14
10uF
25V
CJ15
100
50V(CHIP)
VDOF2
VRCF
IREF
VRDF
PKDET
CEYE
COFF
DRPSK
KIIREF
VCONT
CTL
FOPH
PORA
MPAVG
PEMO
SEYE
SDFF
VISF1
VCLK
VDOF1
RJ23
RJ14
1
(CHIP)
CJ20
47uF
16V
CJ19
104
(CHIP)
RJ13
1.8K
(CHIP)
CJ22
473
50V(CHIP)
RJ12
33K (CHIP)
CJ21
10uF
25V
RJ11
3.3M 1/2W
RJ17
100K
(CHIP)
RJ18
10K
(CHIP)
ICJ02
MC4558C
Vcc
VEE
RJ24
10K
RJ25
100K
(CHIP)
CJ35
47uF
16V
CJ32
4.7uF
50V(NP)
RJ16
10K
(CHIP)
CJ34
4.7uF
50V(NP)
RJ23
10K
(CHIP)
CJ33
821
50V(CHIP)
RJ19
100K
(CHIP)
RJ20
5.6K
(CHIP)
RJ21
5.6K
(CHIP)
CJ36
821
50V(CHIP)
C692
47uF
16V
C693
47uF
16V
RJ22
100K
(CHIP)
C671
3.3uF
50V
C672
3.3uF
50V
R659
3.9K
(CHIP)
R650
4.7K
(CHIP)
SCL
BAC
VOC
L2 OUT
R2 OUT
Fixed Audio Output
Monitor Output
Volume Mute
MATRIX
BASS TRE
VOL BAL MUTE
REAR
L+R
R1 OUT
L1 OUT
VCC
R666
4.7K
(CHIP)
R667
4.7K
(CHIP)
C669
104
(CHIP)
C670
47uF
16V
C686
100uF
10V
C687
104
(CHIP)
R664
100
(CHIP)
X651
10MHz
C685
103
(CHIP)
C684
103
(CHIP)
IC603
TDA9840/V1
SCL
XTAL
Vp
SDA
CAGC
C1p
Vref
V11
V12
V13
V14
LEVEL & STEREO ADJ.
PLL DEM.
DIGITAL INT.
I2C-BUS CONTROL
REF. VOLTAGE
CONTROL LOGIC
R661
100
(CHIP)
C673
10uF
25V
C674
103
(CHIP)
C675
104
(CHIP)
C676
392
50V
L651
2.2mH-J
C678
2.2uF
50V
R662
7.5K
(CHIP)
C679
2.2u
50V
C680
472 (CHIP)
C681
220uF
10V
C682
472
(CHIP)
R663
0
(CHIP)
11

————: Power Line

————: Signal Line

2-9 IF

SCHEMATIC DIAGRAM
CHASSIS: SCT52A
MODEL:
BOARD NAME: IF


12V(B)
5V(A)
SECAM-L' S/W
NTSC-M S/W
RL163 6.8K (CHIP)
QL162 BC848C 30V
RL162 47K (CHIP)
CL164 103 (CHIP)
RM165 6.8K (CHIP)
QM162 BC848C 30V
RM165 47K (CHIP)
CM164 103 (CHIP)
RM164 6.8K (CHIP)
OPTION JUMPER EURO-MULTI SIF S/W OPTION
J121 JUMPER (CHIP)
RL161 47K (CHIP)
RM163 47K (CHIP)
QM161 BC848C 30V
DL161 1SS314 (CHIP)
DM163 1SS314 (CHIP)
D161 1SS314 (CHIP)
R161 5.6K (CHIP)
JL111 0 (CHIP)
SECAM-L OPTION
L' (40.40 MHz)
M (34.40 MHz)
Z162 K9461M SIF SAW filter Switchable from L' to M Without picture carrier
Z161 K9350M SIF SAW filter B/G.D/K.I.L Without picture carrier
B/G.D/K.I.L (32.40 MHz - 33.40 MHz)
SIF
IC113 PAP101 (SIP)
GND NC PULSE VCC OCP V.ADJ F.OUT
POWER GAIN
L111 0.56uH-M (AL02)
IF
R116 68 1/2W
D113 MTZ9.1B
C113 22uF 35V
C161 103 (CHIP)
C112 103 (CHIP)
VIF
IC111 TDA9815 (SDIP) MULTI-STANDARD VIF-PLL with QSS-IF and DUAL FM-PLL/AM DEMODULATOR
SIF-AGC
SIF AMPLIFIER
INTERNAL VOLTAGE STABILIZER
SINGLE REFERENCE QSS MIXER AND AM-DEMOD.
FM DETECTOR (PLL)
TUNER AND VIF-AGC
VCO TWD
AFC DETECTOR
VIDEO BUFFER
VIF AMPLIFIER AND INPUT SWITCH
FPLL
VIDEO DEMODULATOR AND AMPLIFIER
LOOP FILTER
C120 103 (CHIP)
RM118 100K (CHIP)
R113 33K (CHIP)
R114 33K (CHIP)
CM111 103 (CHIP)
DM112 1SS314 (CHIP)
RM117 47K
QM114 BC848C 30V
D112 1SS314 (CHIP)
R115 10K (CHIP)
Input
S/W input
Output
Z111 K6263K Switchable from B/G.D/K.I. L/L' to M/N
#6-N.C #7-N.C #9-FREE
C114 10uF 25V
RL111 47K (CHIP)
RL112 4.7K
Q112 BC848C 30V
QL111 BC848C 30V
R117 (CHIP)
R118 1K (CHIP)
CVBS (1Vpp)
CVBS (2Vpp)
RL115 47K (CHIP)
QL113 BC848C 30V
RL118 5.6K (CHIP)
DL162 RLS4148 (CHIP)
DM111 1N4148
RM168 4.7K (CHIP)
QM164 BC848C 30V
RM169 47K
R178 4.7K (CHIP)
C115 104 (CHIP)
C116 47J (CHIP)
VR111 20K RF AGC VR
C118 25V (CHIP) 224
C127 2.2uF 50V
CL111 103 (CHIP)
RL117 22K (CHIP)
CL112 103 (CHIP)
C105 104 (CHIP)
C106 100uF 16V
C122 080 (CH)
L112 116.7MHZ Including 8 PF Unit tune 116.7MHz
C126 0.33uF 50V
C125 2.2uF 50V
C124 080 (CH)
R126 22K (CHIP)
R128 220 (CHIP)
C123 102 (CHIP)
R127 22K (CHIP)
L113 1.5uH-K (AL02)
Z112 TPS5.5MHz
QM111 BC848C 30V
ZM111 TPS4.5MCTF Sound carrier
RM119 100K (CHIP)
QM112 BC848C 30V
RI180 560 (CHIP)
RI170 560 (CHIP)
RK166 560 (CHIP)
RM162 560 (CHIP)
ZM162 SFE4.5MB
R180 560 (CHIP)
RI168 560 (CHIP)
R169 5.6K (CHIP)
C167 103 (CHIP)
Z167 SFE6.74MCTF21 C2-filter
ZK161 .25MC10-TF21z
C164 22uF 35V
C165 22uF 35V
C166 103 (CHIP)
R177 0 (CHIP)
R158 15K (CHIP)
RL165 360 (CHIP)
QM163 BC848C 30V
R198 15K (CHIP)
RM167 47K (CHIP)
C181 100uF 16V
C182 104 (CHIP)
C183 100uF 16V
C184 104 (CHIP)
CN101 12P S
GND
IF-AGC
IF1
AGC
5V(A)
CVBS
IDENT(RF)
AFC
FRANCE
NTSC-M
SECAM-L'
12V
QPSK
PAL-I
NTSC-M(SOUND)

SYSTEM STANDARD	SWITCHING LOGIC
PAL/SECAM-B.G.D/K.I.L NTSC-M.4.43	HIGH
SECAM-L'	LOW

SYSTEM STANDARD	SWITCHING LOGIC
PAL/SECAM-B.G.D/K.I.L'/L NTSC-4.43	HIGH
NTSC-M	LOW

CARRIER \ SYSTEM STANDARD		B/G	D/K	I	L	L'	M
PICTURE CARRIER (MHz)	Fpc	38.9	38.9	38.9	38.9	33.9	38.9
SOUND CARRIER (MHz)	Fsc1	33.4	32.4	32.9	32.4	40.4	34.4
	Fsc2	33.158					
	Fsn	33.05		32.79	33.05		

FULL MULTI (CZ.CS)		EURO MULTI (CF)	
Z161	Z162	Z161	Z162
K9350M	K9461M	Delete	K9453M
B/G.D/K.I.L	Switchable from L' to M		Switchable from B/G.D/K.I.L to L'

EURO STANDARD (CX.CK.CI.CII)	
Z161	Z162
K9350M	Delete
B/G.D/K.I	

SYSTEM STANDARD	SWITCHING LOGIC
PAL/SECAM-B.G.D/K.I.L'/L NTSC-4.43	LOW
NTSC-M	HIGH

SECAM-L'/L(FRANCE) S/W

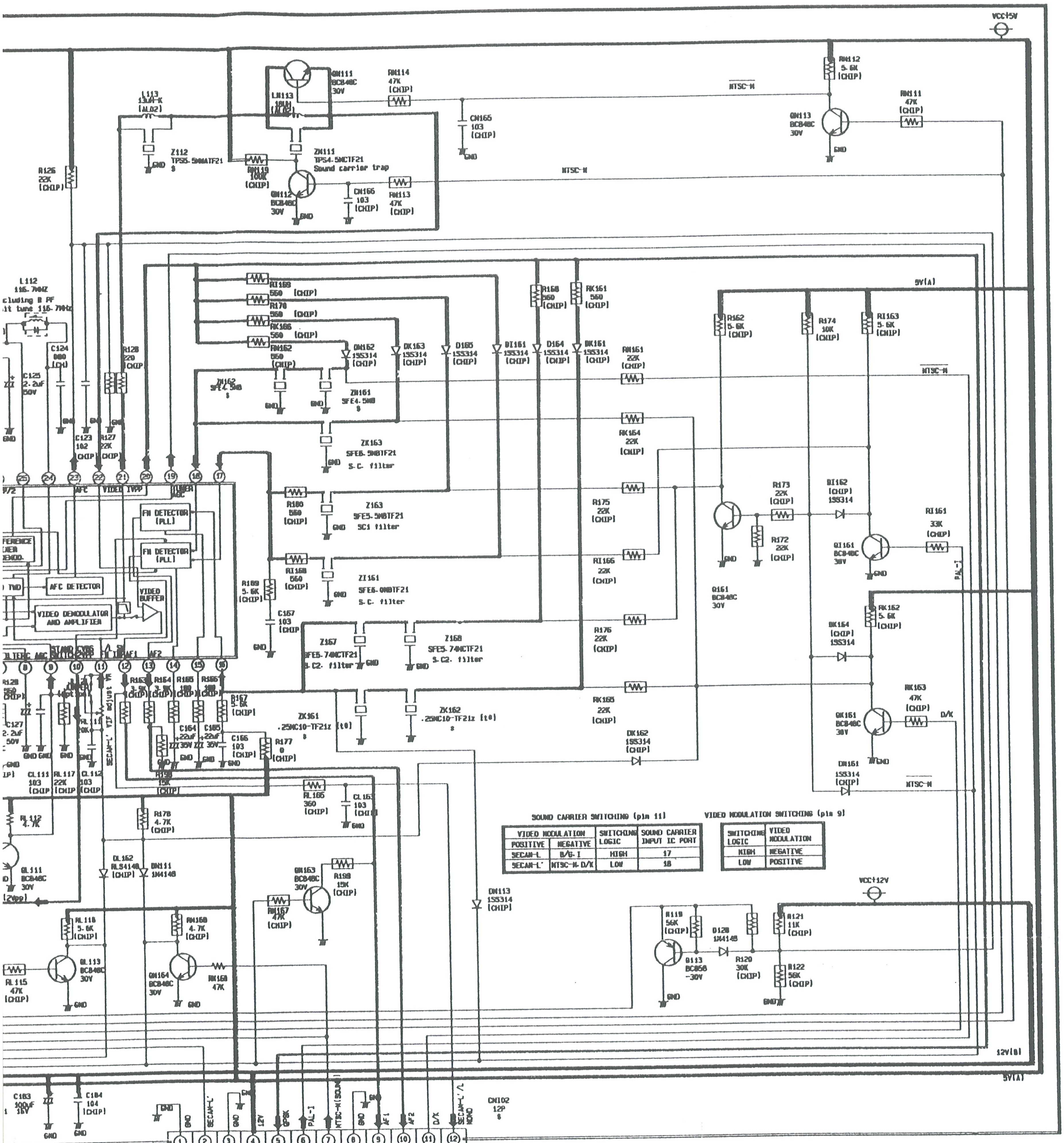
SYSTEM STANDARD	SWITCHING LOGIC
PAL/SECAM-B.G.D/K.I NTSC-M.4.43	LOW
SECAM-L'/L	HIGH

NTSC-M S/W

SYSTEM STANDARD	SWITCHING LOGIC
PAL/SECAM-B.G.D/K.I.L'/L NTSC-4.43	LOW
NTSC-M	HIGH

SWITCHING LOGIC

SYSTEM STANDARD	NTSC-M S/W CN102-9PIN	D/K-S/W CN102-11PIN
B/G.L.L' NTSC-4.43	LOW	LOW
NTSC-M	HIGH	LOW
D/K	LOW	HIGH
PAL-I	LOW	LOW


VCC+5V
RM112 5.6K (CHIP)
QM111 BC848C 30V
RM114 47K (CHIP)
LM113 18uH (AL02)
L113 13uH-K (AL02)
Z112 TPS5.5MHATF21
ZM111 TPS4.5MCTF21 Sound carrier trap
RM119 100K (CHIP)
QM112 BC848C 30V
CM166 103 (CHIP)
RM113 47K (CHIP)
CM165 103 (CHIP)
NTSC-M
QM113 BC848C 30V
RM111 47K (CHIP)
R126 22K (CHIP)
L112 115.7MHZ
C124 080 (CH)
C125 2.2uF 50V
R128 220 (CHIP)
C123 102 (CHIP)
R127 22K (CHIP)
R1169 560 (CHIP)
R170 560 (CHIP)
RK166 560 (CHIP)
RM162 560 (CHIP)
DM162 1SS314 (CHIP)
DK163 1SS314 (CHIP)
D165 1SS314 (CHIP)
DI161 1SS314 (CHIP)
D164 1SS314 (CHIP)
DK161 1SS314 (CHIP)
R168 560 (CHIP)
RK161 560 (CHIP)
RM161 22K (CHIP)
ZM162 SFE4.5MB
ZM161 SFE4.5MB
ZK163 SFE6.5MBTF21 S.C. filter
RK164 22K (CHIP)
R180 560 (CHIP)
Z163 SFE5.5MBTF21 SC1 filter
R175 22K (CHIP)
RI168 560 (CHIP)
ZI161 SFE6.0MBTF21 S.C. filter
RI166 22K (CHIP)
R169 5.6K (CHIP)
C167 103 (CHIP)
Z167 SFE5.74MCTF21 S.C2. filter
Z168 SFE5.74MCTF21 S.C2. filter
R176 22K (CHIP)
RK165 22K (CHIP)
ZK161 .25MC10-TF21z (t0)
ZK162 .25MC10-TF21z (t0)
FM DETECTOR (PLL)
FM DETECTOR (PLL)
AFC DETECTOR
VIDEO BUFFER
VIDEO DEMODULATOR AND AMPLIFIER
AFC
VIDEO
5V(A)
R162 5.6K (CHIP)
R174 10K (CHIP)
RI163 5.6K (CHIP)
R173 22K (CHIP)
DI162 (CHIP) 1SS314
RI161 33K (CHIP)
R172 22K (CHIP)
QI161 BC848C 30V
Q161 BC848C 30V
RK162 5.6K (CHIP)
DK164 (CHIP) 1SS314
RK163 47K (CHIP)
QK161 BC848C 30V
D/K
DK162 1SS314 (CHIP)
DM161 1SS314 (CHIP)
PAL-I
R167 5.6K (CHIP)
R177 0 (CHIP)
C164 22uF 35V
C165 22uF 35V
C166 103 (CHIP)
R163 3.9K
R164 3.9K
R165 180
R166 180
R198 15K (CHIP)
RL165 360 (CHIP)
CL163 103 (CHIP)
C127 2.2uF 50V
CL111 103 (CHIP)
RL117 22K (CHIP)
CL112 103 (CHIP)
RL112 4.7K
R178 4.7K (CHIP)
QL111 BC848C 30V
DL162 RLS4148 (CHIP)
DM11 1N4148
QM163 BC848C 30V
R199 15K (CHIP)
RM167 47K (CHIP)
DM113 1SS314 (CHIP)
RL118 5.6K (CHIP)
RM168 4.7K (CHIP)
QL113 BC848C 30V
QM164 BC848C 30V
RK168 47K
RL115 47K (CHIP)
VCC+12V
R119 56K (CHIP)
D120 1N4148
R121 11K (CHIP)
Q113 BC858 -30V
R120 30K (CHIP)
R122 56K (CHIP)
12V(B)
5V(A)
C183 100uF 16V
C184 104 (CHIP)
GND
GND
SECAM-L'
GND
12V
GPSK
PAL-I
NTSC-M(SOUND)
GND
AF1
AF2
D/K
SECAM-L'/L MONO
CN102 12P
1 2 3 4 5 6 7 8 9 10 11 12

SOUND CARRIER SWITCHING (pin 11)

VIDEO MODULATION		SWITCHING LOGIC	SOUND CARRIER INPUT IC PORT
POSITIVE	NEGATIVE		
SECAM-L	B/G.I	HIGH	17
SECAM-L'	NTSC-M.D/K	LOW	18

VIDEO MODULATION SWITCHING (pin 9)

SWITCHING LOGIC	VIDEO MODULATION
HIGH	NEGATIVE
LOW	POSITIVE

NTSC-M S/W

YSTEM TANDARD	SWITCHING LOGIC
AL/SECAM-B.G. D/K.I.L'/L TSC-4.43	LOW
TSC-M	HIGH

SWITCHING LOGIC

SYSTEM STANDARD	NTSC-M S/W CN102-9PIN	D/K-S/W CN102-11PIN	PAL-I S/W CN102-6PIN
B/G.L.L' NTSC-4.43	LOW	LOW	LOW
NTSC-M	HIGH	LOW	LOW
D/K	LOW	HIGH	LOW
PAL-I	LOW	LOW	HIGH

SECAM-L' S/W

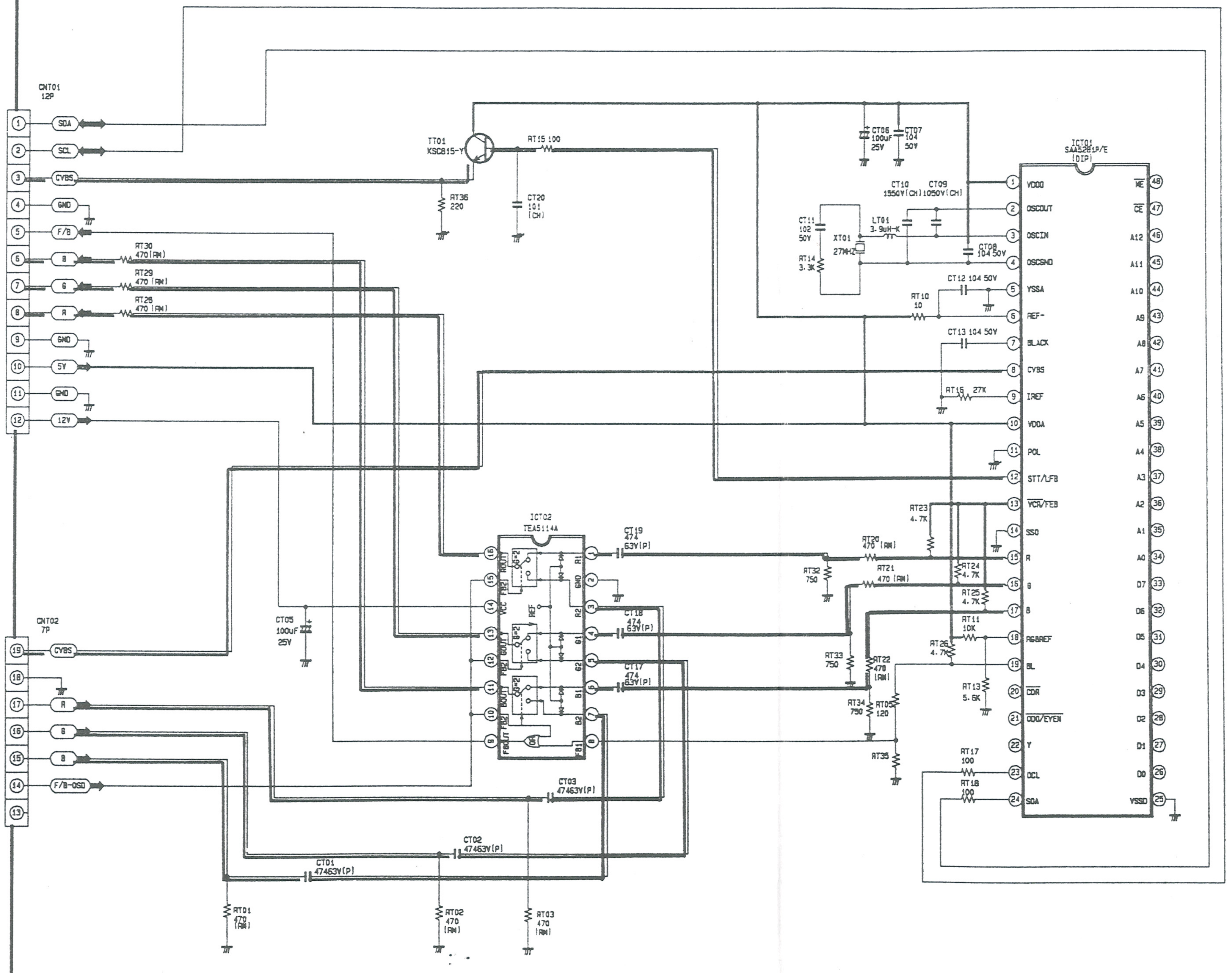
SYSTEM STANDARD	SWITCHING LOGIC
PAL/SECAM-B.G. D/K.I.L NTSC-M.4.43	LOW
SECAM-L'	HIGH

9

——— : Power Line

——— : Signal Line

SCHEMATIC DIAGRAM
CHASSIS: SCT52A
MODEL: CS7255PF
BOARD NAME: TTX


CNT01
12P
SDA
SCL
CVBS
GND
F/B
B
G
R
GND
5V
GND
12V
RT30 470 (RM)
RT29 470 (RM)
RT28 470 (RM)
TT01 KSC815-Y
RT15 100
RT36 220
CT20 101 (CH)
CT06 100uF 25V
CT07 104 50V
CT10 1550V (CH)
CT09 1050V (CH)
CT11 102 50V
XT01 27MHZ
RT14 3.3K
LT01 3.9uH-K
CT08 104 50V
CT12 104 50V
RT10 10
CT13 104 50V
RT16 27K
ICT01 SAA5281P/E (DIP)
VDDD
OSCOUT
OSCIN
OSCGND
VSSA
REF-
BLACK
CVBS
IREF
VDDA
POL
STT/LFB
VCR/FEB
SSO
R
G
B
RGBREF
BL
CDR
ODD/EVEN
Y
DCL
SDA
VSSD
D0
D1
D2
D3
D4
D5
D6
D7
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
CE
WE
RT23 4.7K
RT20 470 (RM)
RT21 470 (RM)
RT24 4.7K
RT25 4.7K
RT11 10K
RT26 4.7K
RT13 5.6K
RT32 750
RT33 750
RT22 470 (RM)
RT34 750
RT05 120
RT35
RT17 100
RT18 100
ICT02 TEA5114A
RIN
FB2
VCC
GOUT
BOUT
FBOUT
R1
GND
R2
G1
G2
B1
B2
FB1
REF
G=2
OR
CT19 474 63V(P)
CT18 474 63V(P)
CT17 474 63V(P)
CT05 100uF 25V
CNT02
7P
CVBS
R
G
B
F/B-OSD
CT03 47463V(P)
CT02 47463V(P)
CT01 47463V(P)
RT01 470 (RM)
RT02 470 (RM)
RT03 470 (RM)

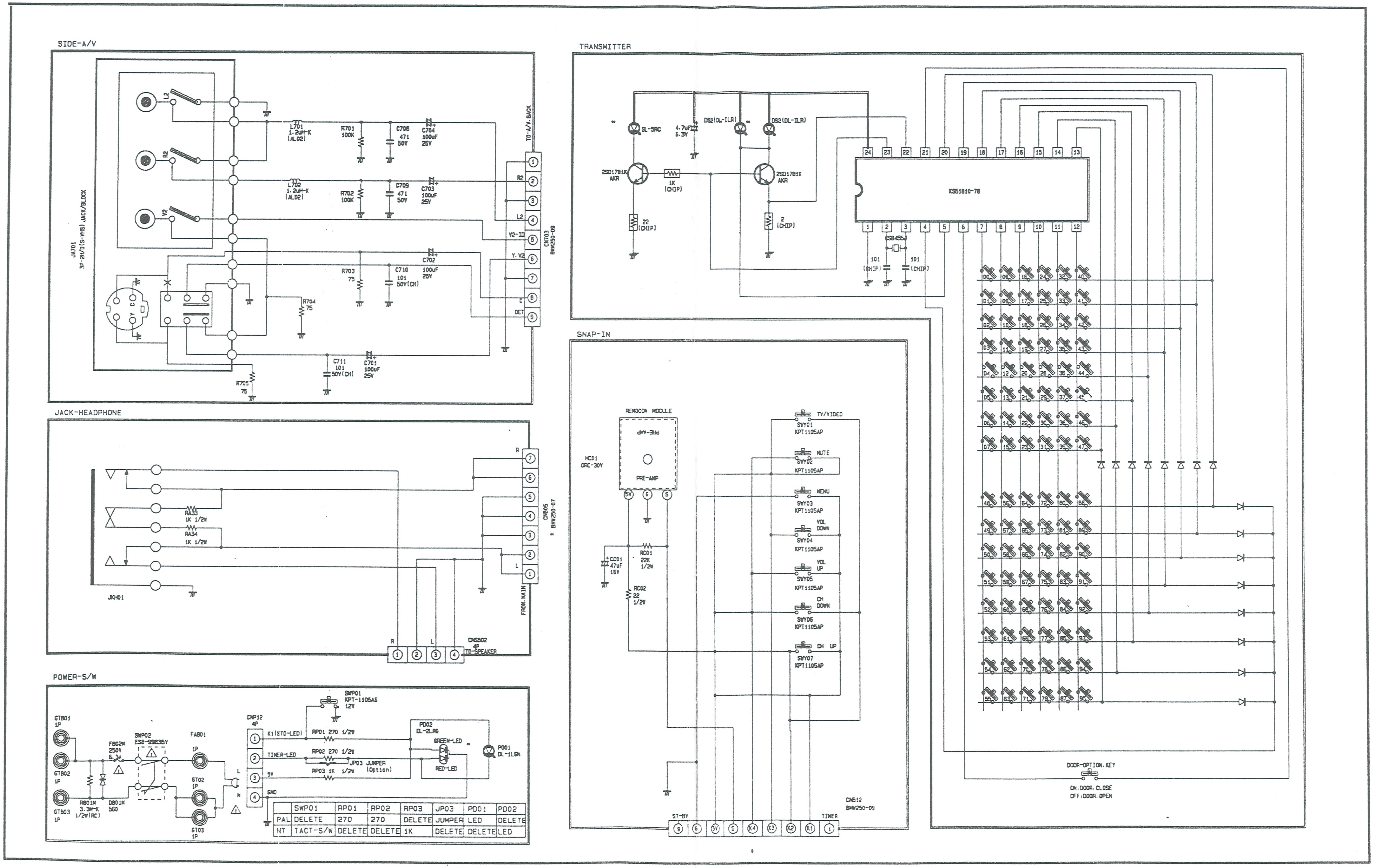
TTX-OPTION

LANGUAGE	ICT01	
	TYPE	CODE-NO.
ENGLISH· GERMAN· SWEDISH ITALIAN· FRENCH SPANISH	SAA5281P/E	
POLISH· GERMAN· SWEDISH RUMANIAN· CZECHOSSLOVAKIAN SERBO-CROAT	SAA5281P/H	
ENGLISH· GERMAN· TURKISH ITALIAN· FRENCH· SPANISH	SAA5281P/T	
ENGLISH· BALTIC· CYRILLIC RUSSIAN	SAA5281P/R	
HEBREW· ARABIC	SAA5281P/L	
ENGLISH· FRENCH· ARABIC	SAA5281P/K	

——: Signal Line

12-11 SIDE-A/V,JACK-HEADPHONE,SNAP-IN,POWER-S/W,TRANSMITTER

SCHEMATIC DIAGRAM
CHASSIS : SCT52A
MODEL :
BOARD NAME : SIDE-A/V. JACK-HEADPHONE. SNAP-IN. POWER-S/W. TRANSMITTER


SIDE-A/V
L2
R2
V2
JA701
3P-2H/0(S-VHS) JACK/BLOCK
L701
1.2uH-K
(AL02)
R701
100K
C706
471
50V
C704
100uF
25V
L702
1.2uH-K
(AL02)
R702
100K
C709
471
50V
C703
100uF
25V
C702
R703
75
C710
101
50V(CH)
100uF
25V
R704
75
C711
101
50V(CH)
C701
100uF
25V
R705
75
Y
C
TO-A/V.BACK
R2
L2
V2-ID
Y.V2
C
DET
CN703
BMW250-09
JACK-HEADPHONE
RA33
1K 1/2W
RA34
1K 1/2W
JKH01
R
L
CN805
BMW250-07
FROM.MAIN
R
L
CNS502
4P
TO-SPEAKER
POWER-S/W
GTB01
1P
GTB02
1P
GTB03
1P
FB02M
250V
6.3A
SWP02
ESB-99835V
RB01M
3.3M-K
1/2W(RC)
DB01M
560
FAB01
1P
GT02
1P
GT03
1P
L
N
CNP12
4P
K1(STD-LED)
TIMER-LED
5V
GND
SWP01
KPT-1105AS
12V
RP01 270 1/2W
RP02 270 1/2W
JP03 JUMPER
(Option)
RP03 1K 1/2W
PD02
DL-2LRG
GREEN-LED
RED-LED
PD01
DL-1LGN
TRANSMITTER
SL-5RC
4.7uF
6.3V
DS2(DL-ILR)
DS2(DL-ILR)
2SD1781K
AKR
1K
(CHIP)
2SD1781K
AKR
22
(CHIP)
2
(CHIP)
KS51810-78
CSB455J
101
(CHIP)
101
(CHIP)
SNAP-IN
REMOCON MODULE
PRE-AMP
HC01
ORC-30V
5V
G
S
CC01
47uF
16V
RC01
22K
1/2W
RC02
22
1/2W
TV/VIDEO
SWY01
KPT1105AP
MUTE
SWY02
KPT1105AP
MENU
SWY03
KPT1105AP
VOL
DOWN
SWY04
KPT1105AP
VOL
UP
SWY05
KPT1105AP
CH
DOWN
SWY06
KPT1105AP
CH UP
SWY07
KPT1105AP
ST-BY
TIMER
CNB12
BMW250-09
K4
K3
K2
K1
DOOR-OPTION.KEY
ON:DOOR.CLOSE
OFF:DOOR.OPEN

	SWP01	RP01	RP02	RP03	JP03	PD01	PD02
PAL	DELETE	270	270	DELETE	JUMPER	LED	DELETE
NT	TACT-S/W	DELETE	DELETE	1K	DELETE	DELETE	LED

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